

Data File : J:\MS24\DATA\042110\0421F012.D  
 Acq On : 21 Apr 2010 2:57 pm  
 Sample : SOIL ICAL 200  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:32:48 2010

Vial: 14  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 14:54:43 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

| Compound                       | R.T.  | QIon | Response | Conc   | Unit | Qvalue |
|--------------------------------|-------|------|----------|--------|------|--------|
| 77) Isopropylbenzene           | 7.62  | 105  | 1571347  | 228.12 | PPB  | 95     |
| 78) cis-1,4-Dichloro-2-butene  | 7.80  | 89   | 104209   | 582.57 | PPB  | # 80   |
| 81) 1,1,2,2-Tetrachloroethane  | 8.03  | 83   | 394176   | 206.51 | PPB  | 90     |
| 82) trans-1,4-Dichloro-2-buten | 8.10  | 53   | 105804   | 247.87 | PPB  | 67     |
| 83) Bromobenzene               | 7.96  | 156  | 438445   | 215.57 | PPB  | 95     |
| 84) n-Propylbenzene            | 8.04  | 91   | 1916322  | 237.49 | PPB  | 96     |
| 85) 1,2,3-Trichloropropane     | 8.07  | 110  | 141540   | 192.51 | PPB  | # 49   |
| 86) 2-Chlorotoluene            | 8.15  | 91   | 1141161  | 220.62 | PPB  | 97     |
| 87) 1,3,5-Trimethylbenzene     | 8.23  | 105  | 1332930  | 234.73 | PPB  | 98     |
| 88) 4-Chlorotoluene            | 8.27  | 91   | 1152641  | 220.07 | PPB  | 97     |
| 89) tert-Butylbenzene          | 8.54  | 119  | 1150593  | 230.66 | PPB  | 96     |
| 90) 1,2,4-Trimethylbenzene     | 8.60  | 105  | 1360187  | 235.70 | PPB  | 89     |
| 91) sec-Butylbenzene           | 8.76  | 105  | 1702457  | 228.69 | PPB  | 98     |
| 92) p-Isopropyltoluene         | 8.91  | 119  | 1434240  | 231.72 | PPB  | 97     |
| 93) 1,3-Dichlorobenzene        | 8.90  | 146  | 800438   | 213.32 | PPB  | 99     |
| 94) 1,4-Dichlorobenzene        | 9.00  | 146  | 797979   | 203.23 | PPB  | 93     |
| 95) n-Butylbenzene             | 9.31  | 91   | 1271631  | 233.19 | PPB  | 95     |
| 96) 1,2-Dichlorobenzene        | 9.36  | 146  | 790605   | 214.34 | PPB  | 98     |
| 97) 1,2-Dibromo-3-chloropropan | 10.14 | 155  | 68372    | 262.46 | PPB  | 83     |
| 98) 1,3,5-Trichlorobenzene     | 10.26 | 180  | 608410   | 232.72 | PPB  | 91     |
| 99) 1,2,4-Trichlorobenzene     | 10.86 | 180  | 560688   | 254.80 | PPB  | 92     |
| 100) Hexachlorobutadiene       | 10.96 | 225  | 309440   | 263.48 | PPB  | 94     |
| 101) Naphthalene               | 11.09 | 128  | 1408429  | 266.32 | PPB  | 98     |
| 102) 1,2,3-Trichlorobenzene    | 11.32 | 180  | 558765   | 273.03 | PPB  | 92     |

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

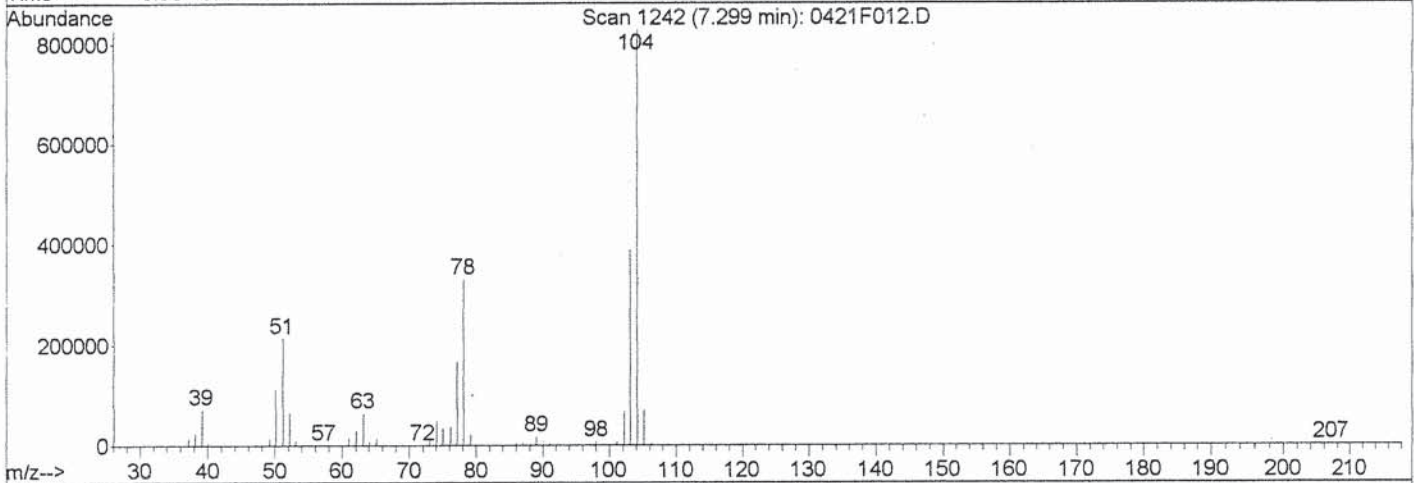
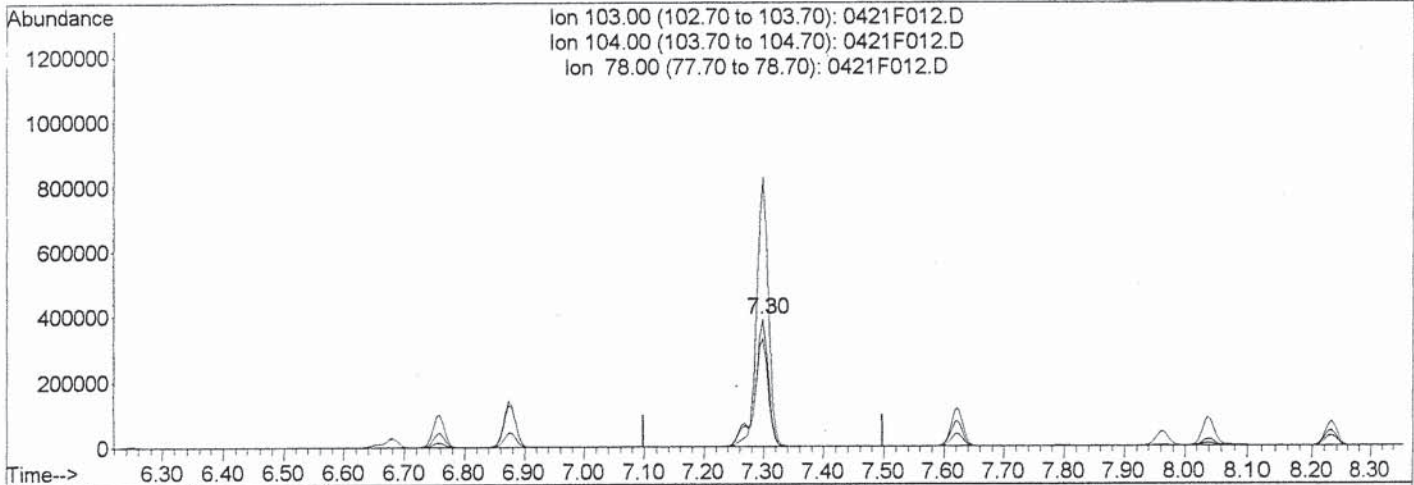
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F012.D  
Acq On : 21 Apr 2010 2:57 pm  
Sample : SOIL ICAL 200  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Apr 21 15:33 2010

Vial: 14  
Operator: KR  
Inst : MS24  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
Title : VOA MS24 EPA Method 8260B  
Last Update : Wed Apr 21 14:54:43 2010  
Response via : Single Level Calibration



TIC: 0421F012.D

(75) Styrene (T)  
7.30min 279.38PPB  
response 612410

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 212.76 |
| 78.00  | 90.20  | 84.80  |
| 0.00   | 0.00   | 0.00   |



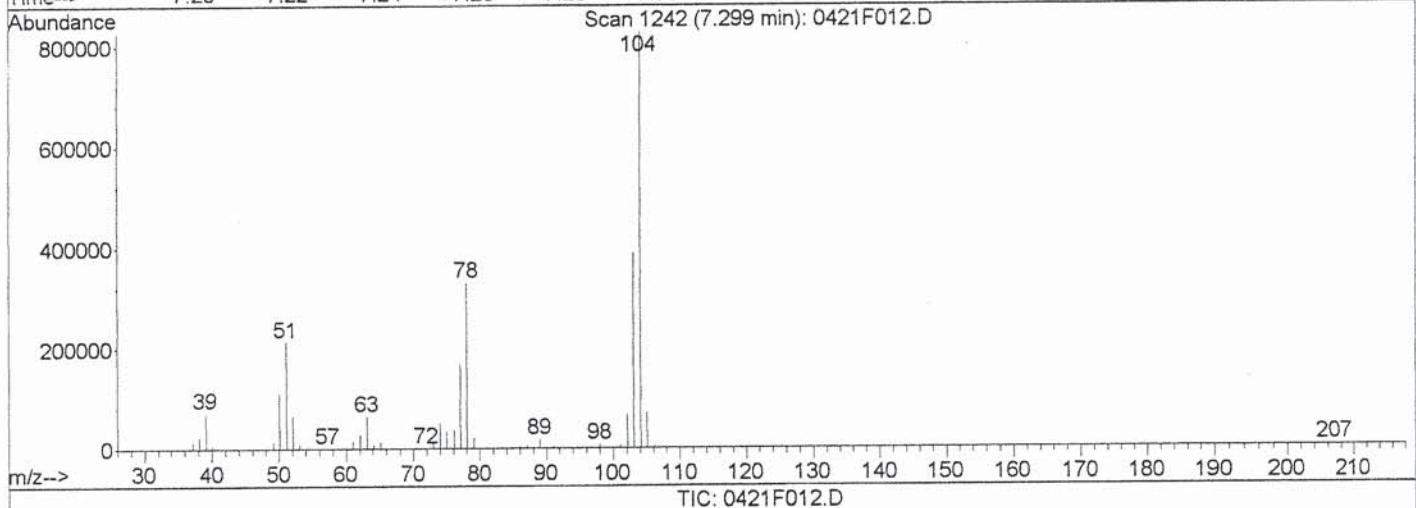
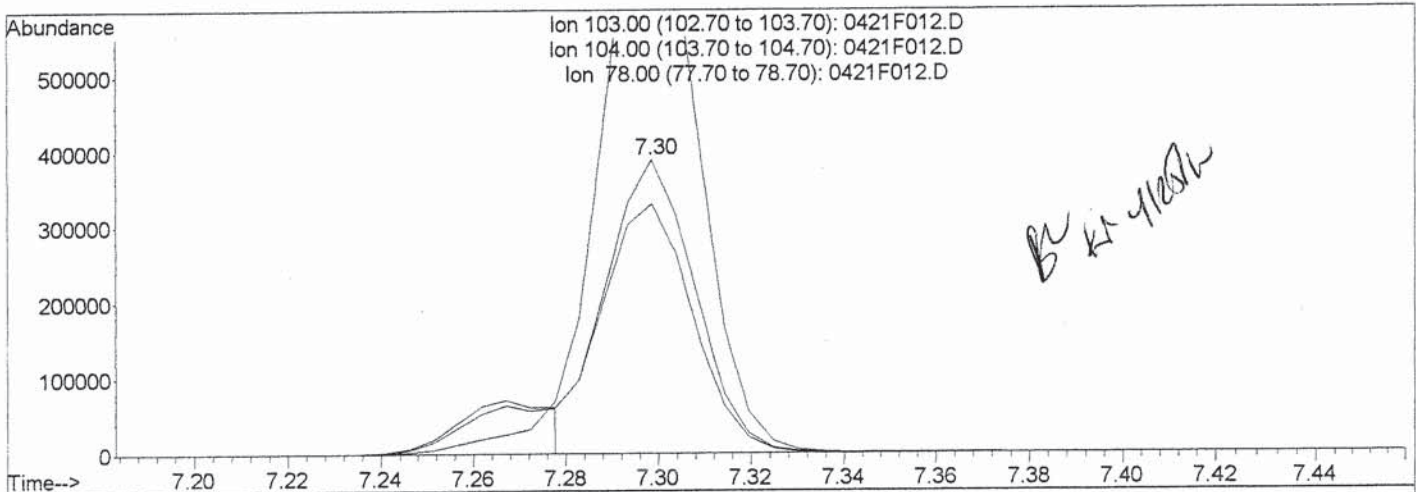
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F012.D  
 Acq On : 21 Apr 2010 2:57 pm  
 Sample : SOIL ICAL 200  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:33 2010

Vial: 14  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 14:54:43 2010  
 Response via : Single Level Calibration



(75) Styrene (T)  
 7.30min 237.52PPB m  
 response 520670

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 212.76 |
| 78.00  | 90.20  | 84.80  |
| 0.00   | 0.00   | 0.00   |

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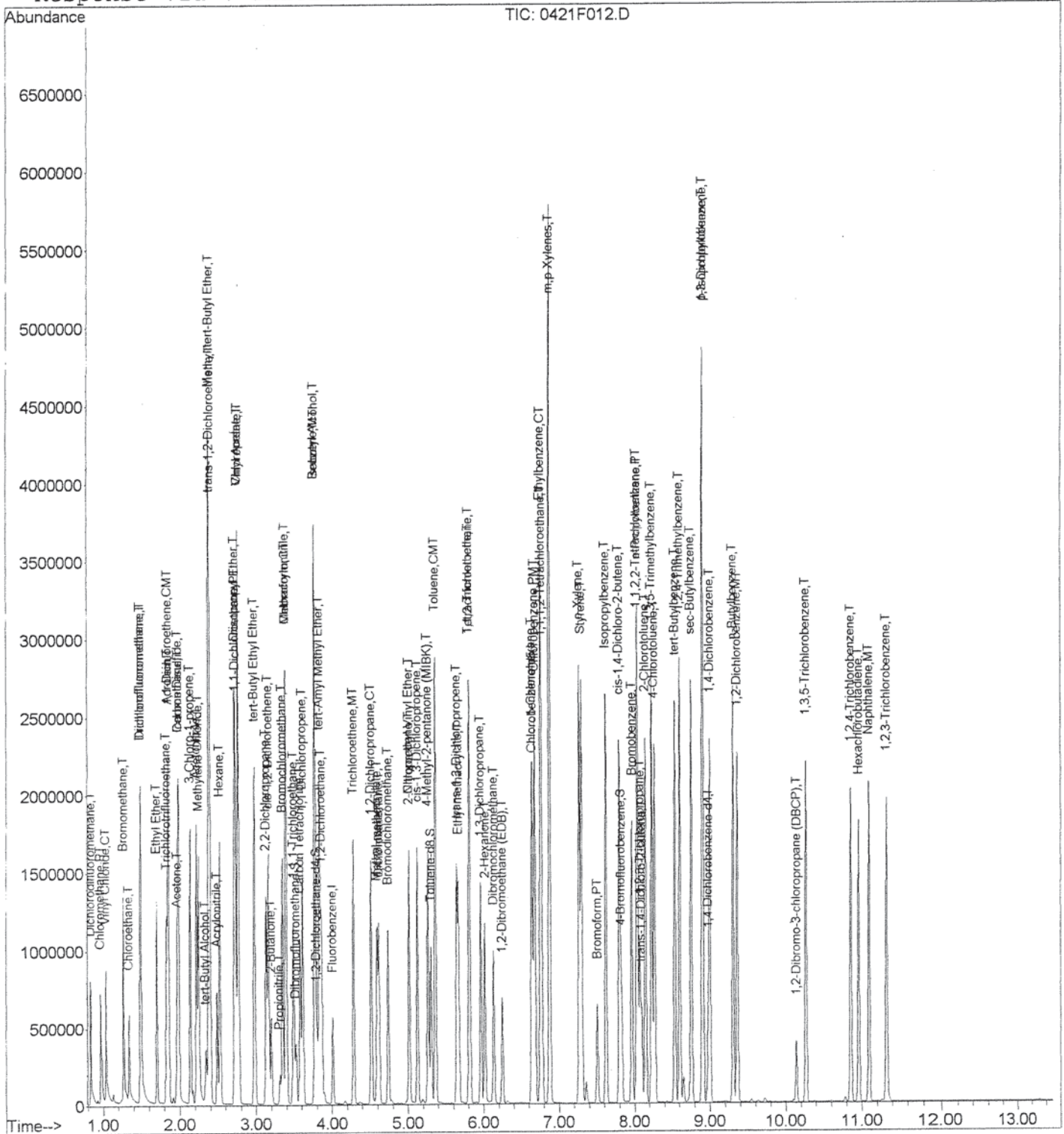
Quantitation Report (QT Reviewed)

Data File : J:\MS24\DATA\042110\0421F012.D  
 Acq On : 21 Apr 2010 2:57 pm  
 Sample : SOIL ICAL 200  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:33 2010

Vial: 14  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 14:54:43 2010  
 Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F013.D  
 Acq On : 21 Apr 2010 3:18 pm  
 Sample : SOIL ICAL 300  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:34:10 2010

Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

*KR 4/21/10*

| Internal Standards         | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|------|------|----------|-------|-------|----------|
| 1) Fluorobenzene           | 4.02 | 96   | 361583   | 50.00 | PPB   | 0.00     |
| 59) Chlorobenzene-d5       | 6.65 | 82   | 154401   | 50.00 | PPB   | 0.00     |
| 80) 1,4-Dichlorobenzene-d4 | 8.98 | 152  | 139576   | 50.00 | PPB   | 0.00     |

System Monitoring Compounds

|                           |      |     |        |          |     |         |
|---------------------------|------|-----|--------|----------|-----|---------|
| 38) Dibromofluoromethane  | 3.54 | 113 | 179289 | 99.09    | PPB | 0.00    |
| Spiked Amount             |      |     |        | 50.000   |     |         |
|                           |      |     |        | Recovery | =   | 198.18% |
| 42) 1,2-Dichloroethane-d4 | 3.81 | 65  | 257144 | 98.36    | PPB | 0.00    |
| Spiked Amount             |      |     |        | 50.000   |     |         |
|                           |      |     |        | Recovery | =   | 196.72% |
| 57) Toluene-d8            | 5.31 | 98  | 641534 | 101.38   | PPB | 0.00    |
| Spiked Amount             |      |     |        | 50.000   |     |         |
|                           |      |     |        | Recovery | =   | 202.76% |
| 79) 4-Bromofluorobenzene  | 7.83 | 95  | 241416 | 102.15   | PPB | 0.00    |
| Spiked Amount             |      |     |        | 50.000   |     |         |
|                           |      |     |        | Recovery | =   | 204.30% |

Target Compounds

|                              |      |     |         |         |     | Qvalue |
|------------------------------|------|-----|---------|---------|-----|--------|
| 2) Dichlorodifluoromethane   | 0.86 | 85  | 621028  | 275.36  | PPB | 97     |
| 3) Chloromethane             | 0.99 | 50  | 767457  | 267.98  | PPB | 95     |
| 4) Vinyl Chloride            | 1.06 | 62  | 689835  | 271.52  | PPB | 97     |
| 5) Bromomethane              | 1.29 | 96  | 607917  | 291.10  | PPB | 99     |
| 6) Chloroethane              | 1.36 | 64  | 464004  | 280.96  | PPB | 96     |
| 7) Dichlorofluoromethane     | 1.52 | 67  | 1170089 | 283.22  | PPB | 96     |
| 8) Trichlorofluoromethane    | 1.51 | 101 | 994547  | 285.54  | PPB | 96     |
| 9) Ethyl Ether               | 1.73 | 59  | 603809  | 290.58  | PPB | 97     |
| 10) Acrolein                 | 1.87 | 56  | 548370  | 1356.91 | PPB | 91     |
| 11) Trichlorotrifluoroethane | 1.86 | 151 | 377296  | 283.12  | PPB | 94     |
| 12) 1,1-Dichloroethene       | 1.88 | 96  | 418563  | 272.51  | PPB | 95     |
| 13) Acetone                  | 1.98 | 43  | 437576  | 506.22  | PPB | 97     |
| 14) Iodomethane              | 2.00 | 142 | 1430832 | 707.62  | PPB | 97     |
| 15) Carbon Disulfide         | 2.01 | 76  | 1791299 | 300.26  | PPB | 97     |
| 16) 3-Chloro-1-propene       | 2.16 | 76  | 320752  | 294.59  | PPB | 92     |
| 17) Acetonitrile             | 2.24 | 40  | 935933  | 5615.86 | PPB | 97     |
| 18) Methylene Chloride       | 2.27 | 84  | 604267  | 274.19  | PPB | 99     |
| 19) tert-Butyl Alcohol       | 2.36 | 59  | 387289  | 1256.76 | PPB | 97     |
| 20) Acrylonitrile            | 2.51 | 53  | 485966  | 574.85  | PPB | 97     |
| 21) Methyl tert-Butyl Ether  | 2.40 | 73  | 3981690 | 629.05  | PPB | 99     |
| 22) trans-1,2-Dichloroethene | 2.42 | 96  | 550773  | 288.83  | PPB | 85     |
| 23) Hexane                   | 2.54 | 57  | 720305  | 274.09  | PPB | 96     |
| 24) Diisopropyl Ether        | 2.74 | 45  | 2111926 | 294.62  | PPB | 96     |
| 25) 1,1-Dichloroethane       | 2.75 | 63  | 1076410 | 285.82  | PPB | 95     |
| 26) Vinyl Acetate            | 2.78 | 86  | 102744  | 293.86  | PPB | # 67   |
| 27) Chloroprene              | 2.78 | 53  | 1541830 | 605.71  | PPB | 96     |
| 28) tert-Butyl Ethyl Ether   | 2.99 | 59  | 1939635 | 298.46  | PPB | 95     |

(#) = qualifier out of range (m) = manual integration  
 0421F013.D 042110MS24SOIL.M Wed Apr 21 15:35:53 2010

*Signature*



Data File : J:\MS24\DATA\042110\0421F013.D  
 Acq On : 21 Apr 2010 3:18 pm  
 Sample : SOIL ICAL 300  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:34:10 2010

Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

| Compound                        | R.T. | QIon | Response | Conc    | Unit | Qvalue |
|---------------------------------|------|------|----------|---------|------|--------|
| 29) 2,2-Dichloropropane         | 3.15 | 77   | 753506   | 292.36  | PPB  | 97     |
| 30) cis-1,2-Dichloroethene      | 3.18 | 96   | 603092   | 284.59  | PPB  | 95     |
| 31) 2-Butanone                  | 3.21 | 72   | 146925   | 534.02  | PPB  | # 88   |
| 32) Propionitrile               | 3.33 | 54   | 174458   | 510.54  | PPB  | 92     |
| 33) Methacrylonitrile           | 3.40 | 67   | 541326   | 609.00  | PPB  | 90     |
| 34) Bromochloromethane          | 3.36 | 128  | 303087   | 292.33  | PPB  | 96     |
| 36) Chloroform                  | 3.41 | 83   | 1069250  | 302.84  | PPB  | 95     |
| 37) 1,1,1-Trichloroethane       | 3.51 | 97   | 808833   | 299.58  | PPB  | 97     |
| 39) Carbon Tetrachloride        | 3.59 | 117  | 702752   | 303.21  | PPB  | 93     |
| 40) 1,1-Dichloropropene         | 3.63 | 75   | 725491   | 298.98  | PPB  | 94     |
| 41) Isobutyl Alcohol            | 3.78 | 43   | 682224   | 6193.41 | PPB  | 94     |
| 43) Benzene                     | 3.79 | 78   | 2324645  | 301.99  | PPB  | 98     |
| 44) 1,2-Dichloroethane          | 3.87 | 62   | 935886   | 299.38  | PPB  | 97     |
| 45) tert-Amyl Methyl Ether      | 3.85 | 55   | 476286   | 283.63  | PPB  | # 68   |
| 46) Trichloroethene             | 4.29 | 95   | 599930   | 293.95  | PPB  | 92     |
| 48) 1,2-Dichloropropane         | 4.53 | 63   | 622976   | 304.07  | PPB  | 99     |
| 49) Dibromomethane              | 4.63 | 93   | 388677   | 299.70  | PPB  | 88     |
| 50) Methyl methacrylate         | 4.60 | 69   | 474664   | 336.23  | PPB  | 92     |
| 51) 1,4-Dioxane                 | 4.62 | 88   | 156363   | 5876.35 | PPB  | 98     |
| 52) Bromodichloromethane        | 4.75 | 83   | 835332   | 327.08  | PPB  | 97     |
| 53) 2-Nitropropane              | 5.02 | 41   | 546012   | 1032.39 | PPB  | 93     |
| 54) 2-Chloroethyl Vinyl Ether   | 5.02 | 63   | 397148   | 315.40  | PPB  | 93     |
| 55) cis-1,3-Dichloropropene     | 5.13 | 75   | 935253   | 328.25  | PPB  | 94     |
| 56) 4-Methyl-2-pentanone (MIBK) | 5.27 | 58   | 479382   | 609.80  | PPB  | 95     |
| 58) Toluene                     | 5.37 | 92   | 1354781  | 291.77  | PPB  | 94     |
| 61) trans-1,3-Dichloropropene   | 5.65 | 75   | 863416   | 345.11  | PPB  | 91     |
| 62) Ethyl methacrylate          | 5.67 | 69   | 802734   | 335.89  | PPB  | 99     |
| 63) 1,1,2-Trichloroethane       | 5.81 | 83   | 449249   | 278.68  | PPB  | 94     |
| 64) Tetrachloroethene           | 5.82 | 164  | 428914   | 281.19  | PPB  | 90     |
| 65) 2-Hexanone                  | 6.02 | 57   | 166885   | 620.84  | PPB  | # 67   |
| 66) 1,3-Dichloropropane         | 5.97 | 76   | 919962   | 287.47  | PPB  | 87     |
| 67) Dibromochloromethane        | 6.14 | 129  | 596194   | 339.66  | PPB  | 97     |
| 68) 1,2-Dibromoethane (EDB)     | 6.25 | 107  | 519873   | 297.25  | PPB  | 98     |
| 69) 1-Chlorohexane              | 6.64 | 91   | 673215   | 306.65  | PPB  | 88     |
| 70) Chlorobenzene               | 6.69 | 112  | 1531178  | 285.74  | PPB  | 100    |
| 71) Ethylbenzene                | 6.76 | 106  | 791745   | 305.71  | PPB  | # 76   |
| 72) 1,1,1,2-Tetrachloroethane   | 6.77 | 131  | 558615   | 320.74  | PPB  | 95     |
| 73) m,p-Xylenes                 | 6.88 | 106  | 1922010  | 632.01  | PPB  | 97     |
| 74) o-Xylene                    | 7.27 | 106  | 948574   | 310.40  | PPB  | 92     |
| 75) Styrene                     | 7.30 | 103  | 775204m  | 325.83  | PPB  |        |
| 76) Bromoform                   | 7.51 | 173  | 373549   | 352.47  | PPB  | 90     |

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



Data File : J:\MS24\DATA\042110\0421F013.D  
 Acq On : 21 Apr 2010 3:18 pm  
 Sample : SOIL ICAL 300  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:34:10 2010

Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

| Compound                       | R.T.  | QIon | Response | Conc   | Unit | Qvalue |
|--------------------------------|-------|------|----------|--------|------|--------|
| 77) Isopropylbenzene           | 7.62  | 105  | 2223093  | 299.63 | PPB  | 95     |
| 78) cis-1,4-Dichloro-2-butene  | 7.80  | 89   | 161638   | 806.04 | PPB  | # 79   |
| 81) 1,1,2,2-Tetrachloroethane  | 8.03  | 83   | 576110   | 281.26 | PPB  | 91     |
| 82) trans-1,4-Dichloro-2-buten | 8.10  | 53   | 156836   | 330.79 | PPB  | 65     |
| 83) Bromobenzene               | 7.96  | 156  | 652516   | 297.47 | PPB  | 93     |
| 84) n-Propylbenzene            | 8.04  | 91   | 2777495  | 312.49 | PPB  | 96     |
| 85) 1,2,3-Trichloropropane     | 8.07  | 110  | 208848   | 267.18 | PPB  | # 51   |
| 86) 2-Chlorotoluene            | 8.15  | 91   | 1680779  | 299.80 | PPB  | 96     |
| 87) 1,3,5-Trimethylbenzene     | 8.23  | 105  | 1959387  | 313.96 | PPB  | 99     |
| 88) 4-Chlorotoluene            | 8.27  | 91   | 1668043  | 293.95 | PPB  | 96     |
| 89) tert-Butylbenzene          | 8.54  | 119  | 1721829  | 315.11 | PPB  | 98     |
| 90) 1,2,4-Trimethylbenzene     | 8.60  | 105  | 2066627  | 325.59 | PPB  | 91     |
| 91) sec-Butylbenzene           | 8.76  | 105  | 2566509  | 315.23 | PPB  | 97     |
| 92) p-Isopropyltoluene         | 8.91  | 119  | 2153978  | 317.41 | PPB  | 97     |
| 93) 1,3-Dichlorobenzene        | 8.90  | 146  | 1212419  | 300.00 | PPB  | 100    |
| 94) 1,4-Dichlorobenzene        | 9.00  | 146  | 1215576  | 289.25 | PPB  | 94     |
| 95) n-Butylbenzene             | 9.31  | 91   | 1917329  | 320.31 | PPB  | 95     |
| 96) 1,2-Dichlorobenzene        | 9.36  | 146  | 1185718  | 298.28 | PPB  | 98     |
| 97) 1,2-Dibromo-3-chloropropan | 10.14 | 155  | 111595   | 377.48 | PPB  | 85     |
| 98) 1,3,5-Trichlorobenzene     | 10.27 | 180  | 847904   | 297.55 | PPB  | 92     |
| 99) 1,2,4-Trichlorobenzene     | 10.86 | 180  | 531356   | 217.55 | PPB  | 95     |
| 100) Hexachlorobutadiene       | 10.96 | 225  | 267293   | 204.95 | PPB  | 93     |
| 101) Naphthalene               | 11.09 | 128  | 1422354  | 236.14 | PPB  | 97     |
| 102) 1,2,3-Trichlorobenzene    | 11.32 | 180  | 542825   | 237.48 | PPB  | 91     |

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

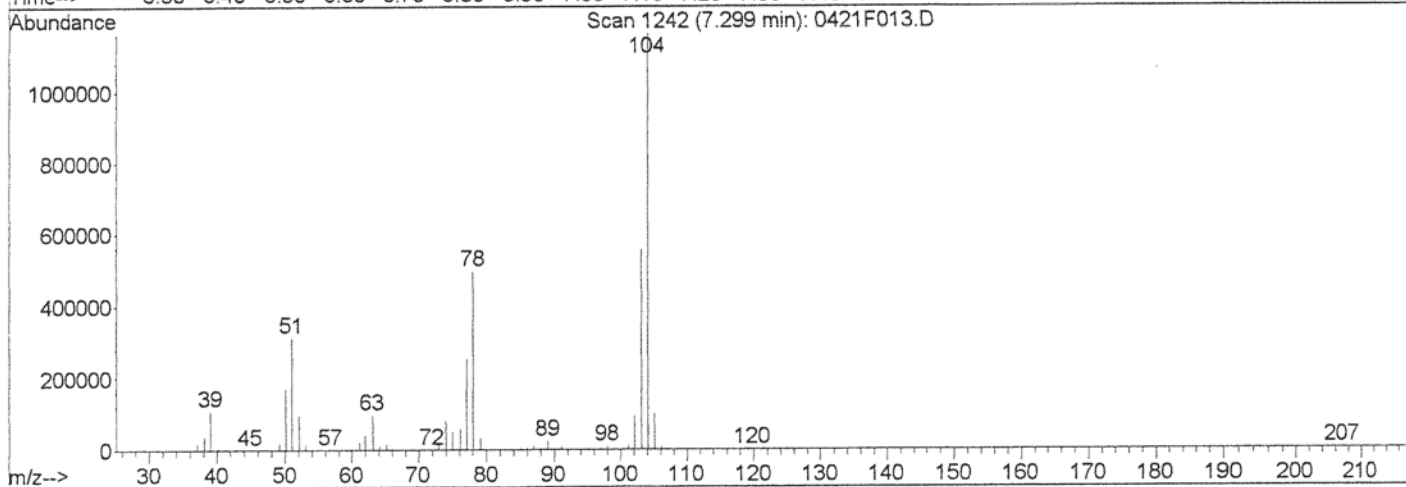
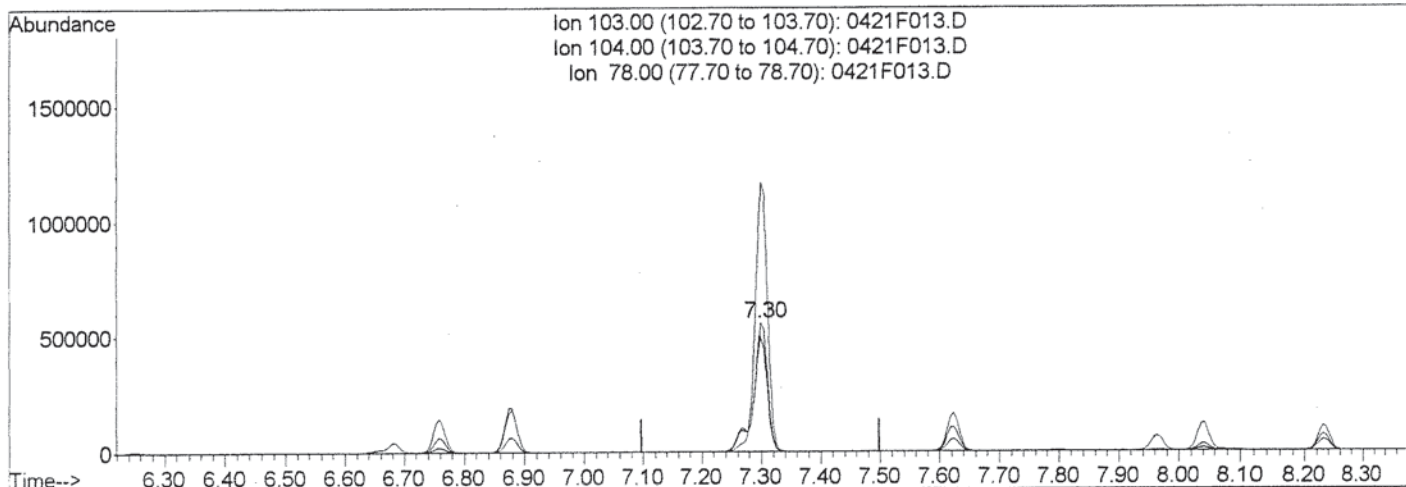
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 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:35 2010

Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Single Level Calibration



TIC: 0421F013.D

(75) Styrene (T)  
 7.30min 379.07PPB  
 response 901874

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 209.16 |
| 78.00  | 90.20  | 89.41  |
| 0.00   | 0.00   | 0.00   |



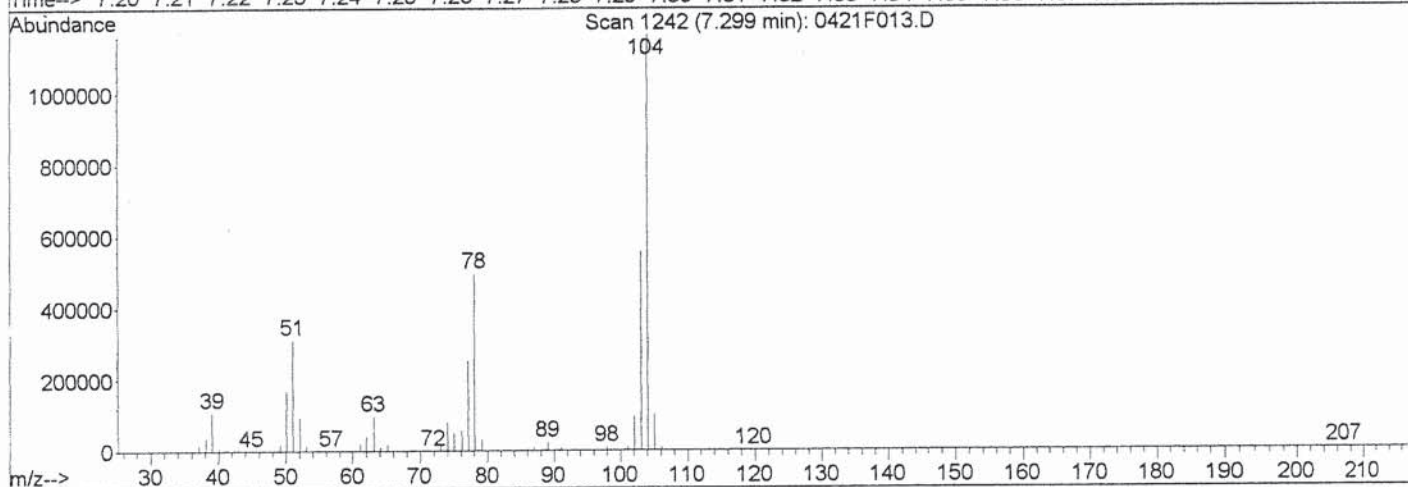
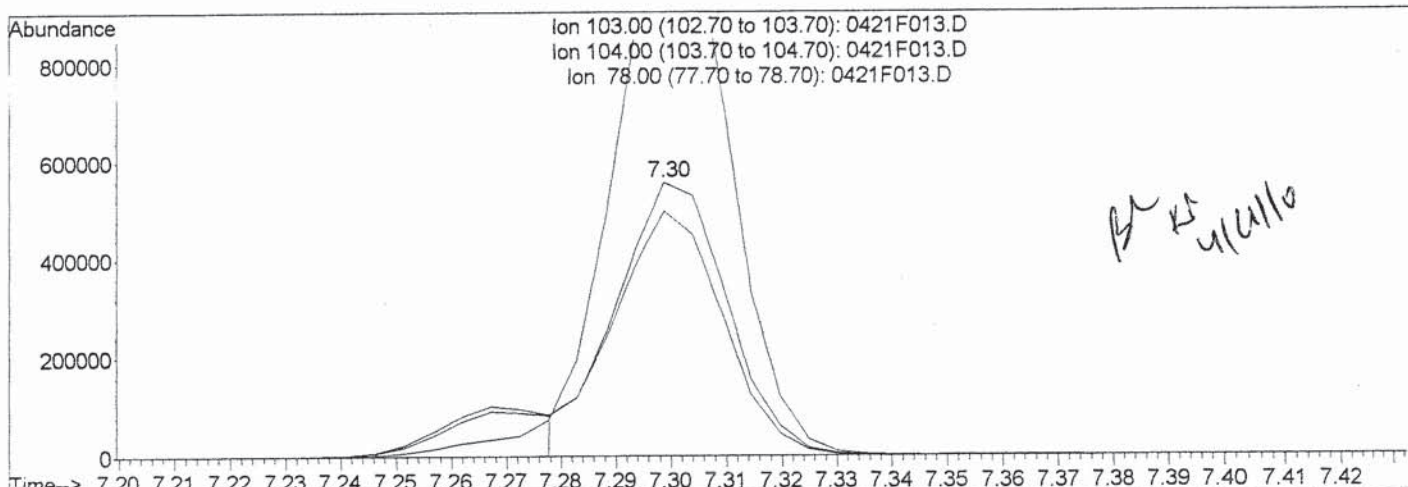
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Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Single Level Calibration



(75) Styrene (T)  
 7.30min 325.83PPB m  
 response 775204

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 209.16 |
| 78.00  | 90.20  | 89.44  |
| 0.00   | 0.00   | 0.00   |

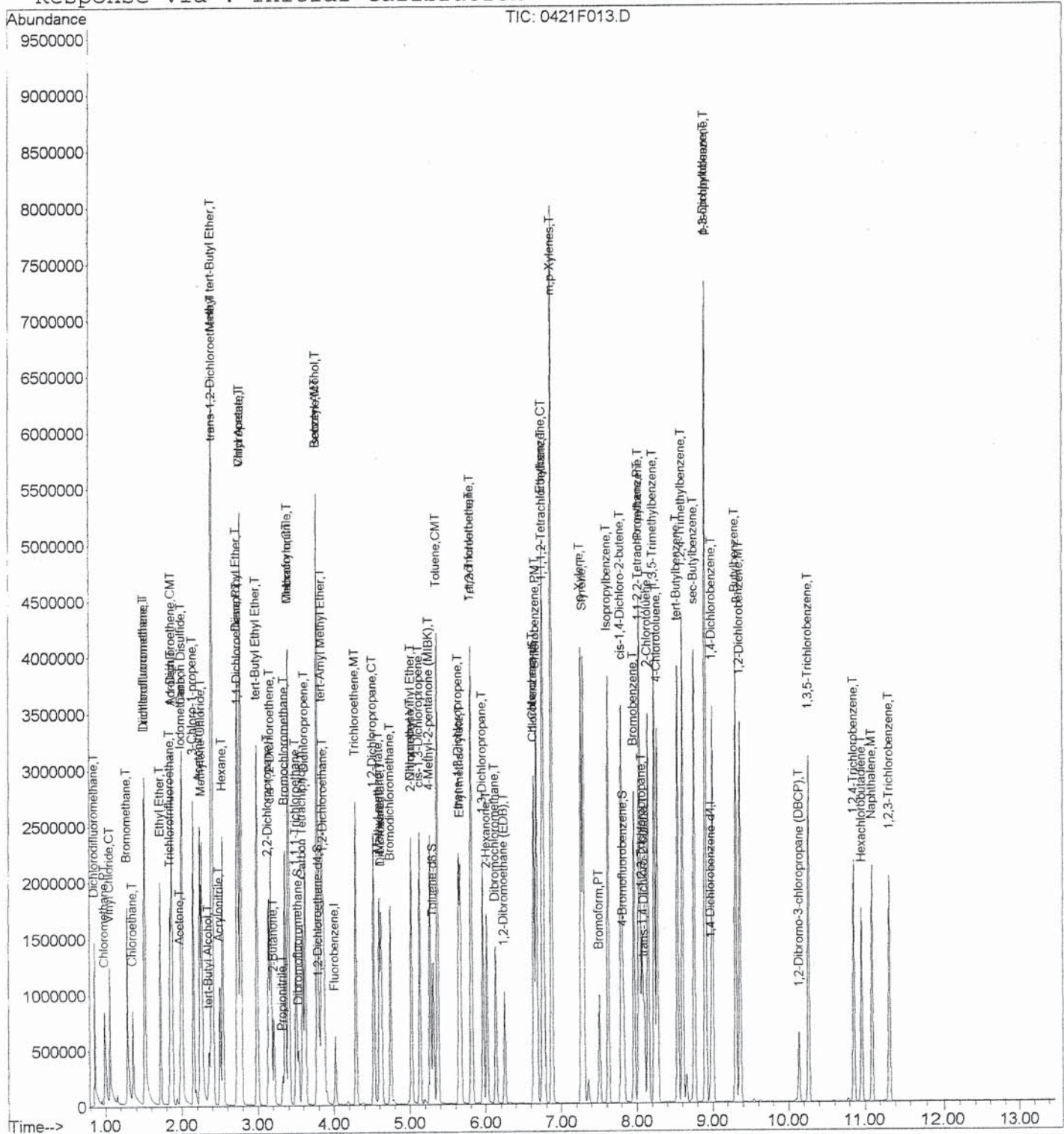
*[Handwritten signature]*

Data File : J:\MS24\DATA\042110\0421F013.D  
 Acq On : 21 Apr 2010 3:18 pm  
 Sample : SOIL ICAL 300  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 21 15:35 2010

Vial: 15  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Wed Apr 21 15:34:02 2010  
 Response via : Initial Calibration





Data File : J:\MS24\DATA\042110\0421F017.D  
 Acq On : 21 Apr 2010 5:07 pm  
 Sample : ICV  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 22 08:36:26 2010

Vial: 19  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Thu Apr 22 07:51:04 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

*K-42410*

| Internal Standards         | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|------|------|----------|-------|-------|----------|
| 1) Fluorobenzene           | 4.02 | 96   | 353765   | 50.00 | PPB   | 0.00     |
| 59) Chlorobenzene-d5       | 6.65 | 82   | 143292   | 50.00 | PPB   | 0.00     |
| 80) 1,4-Dichlorobenzene-d4 | 8.98 | 152  | 141544   | 50.00 | PPB   | 0.00     |

System Monitoring Compounds

|                           |      |     |        |       |     |                    |
|---------------------------|------|-----|--------|-------|-----|--------------------|
| 38) Dibromofluoromethane  | 3.53 | 113 | 83297  | 47.11 | PPB | 0.00               |
| Spiked Amount             |      |     |        |       |     |                    |
|                           |      |     |        |       |     | Recovery = 94.22%  |
| 42) 1,2-Dichloroethane-d4 | 3.81 | 65  | 109917 | 43.06 | PPB | 0.00               |
| Spiked Amount             |      |     |        |       |     |                    |
|                           |      |     |        |       |     | Recovery = 86.12%  |
| 57) Toluene-d8            | 5.31 | 98  | 318509 | 51.36 | PPB | 0.00               |
| Spiked Amount             |      |     |        |       |     |                    |
|                           |      |     |        |       |     | Recovery = 102.72% |
| 79) 4-Bromofluorobenzene  | 7.83 | 95  | 110079 | 50.05 | PPB | 0.00               |
| Spiked Amount             |      |     |        |       |     |                    |
|                           |      |     |        |       |     | Recovery = 100.10% |

Target Compounds

| Target Compounds             | R.T. | QIon | Response | Conc   | Units | Qvalue |
|------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane   | 0.86 | 85   | 105374   | 48.25  | PPB   | 97     |
| 3) Chloromethane             | 0.99 | 50   | 118704   | 42.87  | PPB   | 96     |
| 4) Vinyl Chloride            | 1.06 | 62   | 112972   | 45.99  | PPB   | 98     |
| 5) Bromomethane              | 1.29 | 96   | 91045    | 44.56  | PPB   | 97     |
| 6) Chloroethane              | 1.36 | 64   | 66384    | 41.46  | PPB   | 93     |
| 7) Dichlorofluoromethane     | 1.52 | 67   | 179353   | 44.65  | PPB   | 98     |
| 8) Trichlorofluoromethane    | 1.51 | 101  | 143080   | 42.24  | PPB   | 97     |
| 9) Ethyl Ether               | 1.73 | 59   | 90194    | 44.52  | PPB   | 96     |
| 10) Acrolein                 | 1.87 | 56   | 29973    | 76.62  | PPB   | 91     |
| 11) Trichlorotrifluoroethane | 1.85 | 151  | 65657    | 50.71  | PPB   | 96     |
| 12) 1,1-Dichloroethene       | 1.88 | 96   | 75593    | 50.89  | PPB   | 97     |
| 13) Acetone                  | 1.98 | 43   | 173847   | 211.06 | PPB   | 98     |
| 14) Iodomethane              | 2.00 | 142  | 134759   | 66.42  | PPB   | 97     |
| 15) Carbon Disulfide         | 2.01 | 76   | 559675   | 95.88  | PPB   | 98     |
| 16) 3-Chloro-1-propene       | 2.16 | 76   | 64778    | 60.97  | PPB   | 92     |
| 17) Acetonitrile             | 2.23 | 40   | 119752   | 740.35 | PPB   | 96     |
| 18) Methylene Chloride       | 2.27 | 84   | 97359    | 45.72  | PPB   | 97     |
| 19) tert-Butyl Alcohol       | 2.35 | 59   | 132703   | 449.25 | PPB   | 97     |
| 20) Acrylonitrile            | 2.50 | 53   | 98686    | 119.87 | PPB   | 97     |
| 21) Methyl tert-Butyl Ether  | 2.40 | 73   | 292114   | 46.92  | PPB   | 98     |
| 22) trans-1,2-Dichloroethene | 2.41 | 96   | 90510    | 48.71  | PPB   | 83     |
| 23) Hexane                   | 2.54 | 57   | 152816   | 60.01  | PPB   | 94     |
| 24) Diisopropyl Ether        | 2.73 | 45   | 584603   | 83.52  | PPB   | 95     |
| 25) 1,1-Dichloroethane       | 2.75 | 63   | 171578   | 46.81  | PPB   | 95     |
| 26) Vinyl Acetate            | 2.78 | 86   | 70031    | 205.32 | PPB # | 66     |
| 27) Chloroprene              | 2.78 | 53   | 193888   | 77.77  | PPB   | 97     |
| 28) tert-Butyl Ethyl Ether   | 2.99 | 59   | 539095   | 84.83  | PPB   | 94     |

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

*Signature*



Data File : J:\MS24\DATA\042110\0421F017.D  
 Acq On : 21 Apr 2010 5:07 pm  
 Sample : ICV  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 22 08:36:26 2010

Vial: 19  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Thu Apr 22 07:51:04 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

| Compound                        | R.T. | QIon | Response | Conc   | Unit | Qvalue |
|---------------------------------|------|------|----------|--------|------|--------|
| 29) 2,2-Dichloropropane         | 3.15 | 77   | 127046   | 50.57  | PPB  | 95     |
| 30) cis-1,2-Dichloroethene      | 3.18 | 96   | 94825    | 46.00  | PPB  | 96     |
| 31) 2-Butanone                  | 3.21 | 72   | 61469    | 232.00 | PPB  | # 40   |
| 32) Propionitrile               | 3.32 | 54   | 21894    | 66.73  | PPB  | 97     |
| 33) Methacrylonitrile           | 3.40 | 67   | 60507    | 69.45  | PPB  | 92     |
| 34) Bromochloromethane          | 3.36 | 128  | 48497    | 47.98  | PPB  | 92     |
| 36) Chloroform                  | 3.41 | 83   | 166947   | 48.27  | PPB  | 97     |
| 37) 1,1,1-Trichloroethane       | 3.50 | 97   | 134344   | 50.87  | PPB  | 94     |
| 39) Carbon Tetrachloride        | 3.59 | 117  | 114995   | 50.63  | PPB  | 95     |
| 40) 1,1-Dichloropropene         | 3.63 | 75   | 113419   | 47.79  | PPB  | 95     |
| 41) Isobutyl Alcohol            | 3.78 | 43   | 68931    | 637.04 | PPB  | 94     |
| 43) Benzene                     | 3.79 | 78   | 360429   | 47.82  | PPB  | 98     |
| 44) 1,2-Dichloroethane          | 3.87 | 62   | 143906   | 47.06  | PPB  | 98     |
| 45) tert-Amyl Methyl Ether      | 3.84 | 55   | 135140   | 82.76  | PPB  | # 81   |
| 46) Trichloroethene             | 4.29 | 95   | 101608   | 51.00  | PPB  | 93     |
| 47) Ethyl Acrylate              | 4.60 | 55   | 8745     | 776.34 | PPB  | # 1    |
| 48) 1,2-Dichloropropane         | 4.53 | 63   | 99804    | 49.71  | PPB  | 98     |
| 49) Dibromomethane              | 4.62 | 93   | 63147    | 49.77  | PPB  | 93     |
| 50) Methyl methacrylate         | 4.60 | 69   | 101896   | 72.52  | PPB  | 94     |
| 51) 1,4-Dioxane                 | 4.62 | 88   | 20891    | 804.83 | PPB  | 95     |
| 52) Bromodichloromethane        | 4.75 | 83   | 128944   | 50.95  | PPB  | 98     |
| 53) 2-Nitropropane              | 5.02 | 41   | 37497    | 71.30  | PPB  | # 58   |
| 54) 2-Chloroethyl Vinyl Ether   | 5.02 | 63   | 67475    | 54.37  | PPB  | 92     |
| 55) cis-1,3-Dichloropropene     | 5.13 | 75   | 127695   | 45.20  | PPB  | 93     |
| 56) 4-Methyl-2-pentanone (MIBK) | 5.27 | 58   | 190355   | 246.92 | PPB  | 95     |
| 58) Toluene                     | 5.37 | 92   | 224154   | 49.51  | PPB  | 99     |
| 61) trans-1,3-Dichloropropene   | 5.65 | 75   | 136608   | 57.60  | PPB  | 87     |
| 62) Ethyl methacrylate          | 5.67 | 69   | 173010   | 76.69  | PPB  | 99     |
| 63) 1,1,2-Trichloroethane       | 5.81 | 83   | 75479    | 50.85  | PPB  | 95     |
| 64) Tetrachloroethene           | 5.82 | 164  | 75066    | 53.40  | PPB  | 89     |
| 65) 2-Hexanone                  | 6.02 | 57   | 64778    | 258.54 | PPB  | # 76   |
| 66) 1,3-Dichloropropane         | 5.97 | 76   | 149810   | 50.68  | PPB  | 86     |
| 67) Dibromochloromethane        | 6.13 | 129  | 84742    | 51.06  | PPB  | 95     |
| 68) 1,2-Dibromoethane (EDB)     | 6.25 | 107  | 84721    | 52.26  | PPB  | 99     |
| 69) 1-Chlorohexane              | 6.64 | 91   | 110035   | 54.01  | PPB  | 89     |
| 70) Chlorobenzene               | 6.68 | 112  | 246494   | 49.83  | PPB  | 99     |
| 71) Ethylbenzene                | 6.76 | 106  | 128572   | 53.37  | PPB  | # 82   |
| 72) 1,1,1,2-Tetrachloroethane   | 6.77 | 131  | 84700    | 51.89  | PPB  | 94     |
| 73) m,p-Xylenes                 | 6.88 | 106  | 318534   | 112.20 | PPB  | 96     |
| 74) o-Xylene                    | 7.27 | 106  | 154262   | 54.12  | PPB  | 95     |
| 75) Styrene                     | 7.30 | 103  | 121581m  | 54.40  | PPB  |        |

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

Data File : J:\MS24\DATA\042110\0421F017.D  
 Acq On : 21 Apr 2010 5:07 pm  
 Sample : ICV  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 22 08:36:26 2010

Vial: 19  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Thu Apr 22 07:51:04 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8260

| Compound                       | R.T.  | QIon | Response | Conc   | Unit  | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 76) Bromoform                  | 7.51  | 173  | 54935    | 54.49  | PPB   | 89     |
| 77) Isopropylbenzene           | 7.62  | 105  | 395962   | 57.52  | PPB   | 95     |
| 78) cis-1,4-Dichloro-2-butene  | 7.80  | 89   | 20083    | 103.47 | PPB # | 75     |
| 81) 1,1,2,2-Tetrachloroethane  | 8.03  | 83   | 97128    | 47.13  | PPB   | 90     |
| 82) trans-1,4-Dichloro-2-buten | 8.10  | 53   | 48782    | 99.99  | PPB   | 78     |
| 83) Bromobenzene               | 7.96  | 156  | 103842   | 46.73  | PPB   | 94     |
| 84) n-Propylbenzene            | 8.04  | 91   | 470471   | 51.89  | PPB   | 97     |
| 85) 1,2,3-Trichloropropane     | 8.07  | 110  | 36300    | 46.36  | PPB # | 53     |
| 86) 2-Chlorotoluene            | 8.15  | 91   | 288519   | 50.75  | PPB   | 96     |
| 87) 1,3,5-Trimethylbenzene     | 8.23  | 105  | 335693   | 52.69  | PPB   | 98     |
| 88) 4-Chlorotoluene            | 8.27  | 91   | 285094   | 49.67  | PPB   | 98     |
| 89) tert-Butylbenzene          | 8.54  | 119  | 296183   | 53.07  | PPB   | 98     |
| 90) 1,2,4-Trimethylbenzene     | 8.60  | 105  | 345978   | 53.10  | PPB   | 91     |
| 91) sec-Butylbenzene           | 8.76  | 105  | 450502   | 54.17  | PPB   | 100    |
| 92) p-Isopropyltoluene         | 8.91  | 119  | 387073   | 55.78  | PPB   | 97     |
| 93) 1,3-Dichlorobenzene        | 8.90  | 146  | 214487   | 52.34  | PPB   | 99     |
| 94) 1,4-Dichlorobenzene        | 9.00  | 146  | 217486   | 51.24  | PPB   | 91     |
| 95) n-Butylbenzene             | 9.31  | 91   | 341815   | 55.77  | PPB   | 95     |
| 96) 1,2-Dichlorobenzene        | 9.36  | 146  | 200280   | 49.71  | PPB   | 95     |
| 97) 1,2-Dibromo-3-chloropropan | 10.14 | 155  | 17506    | 56.86  | PPB   | 82     |
| 98) 1,3,5-Trichlorobenzene     | 10.26 | 180  | 151473   | 52.46  | PPB   | 94     |
| 99) 1,2,4-Trichlorobenzene     | 10.86 | 180  | 136022   | 53.34  | PPB   | 93     |
| 100) Hexachlorobutadiene       | 10.96 | 225  | 75885    | 59.47  | PPB   | 94     |
| 101) Naphthalene               | 11.09 | 128  | 314223   | 53.58  | PPB   | 98     |
| 102) 1,2,3-Trichlorobenzene    | 11.32 | 180  | 141470   | 59.57  | PPB   | 91     |

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

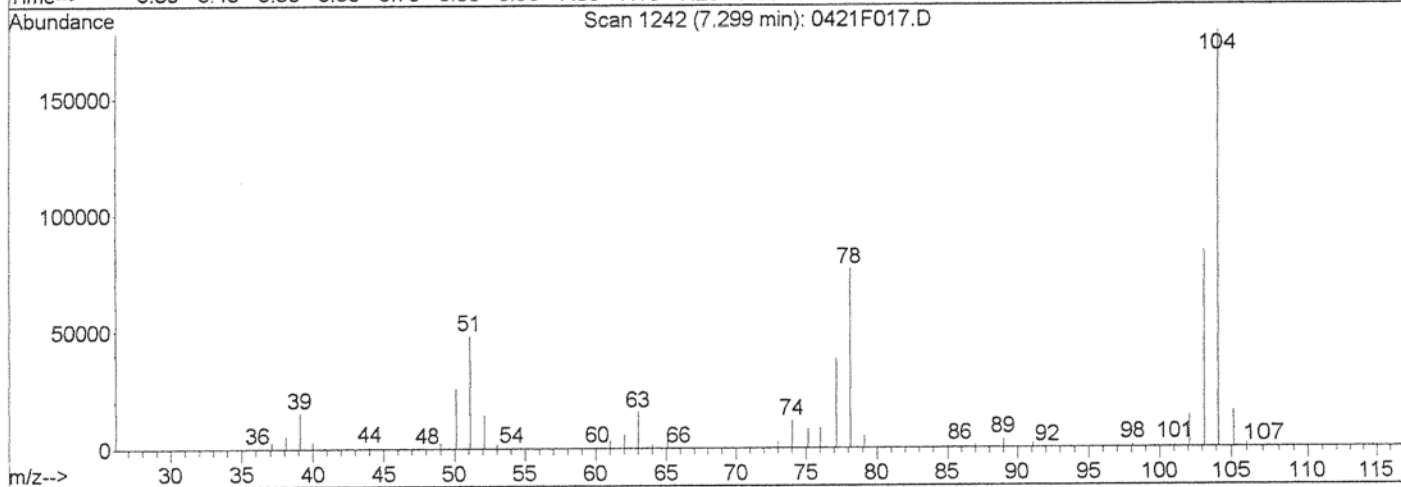
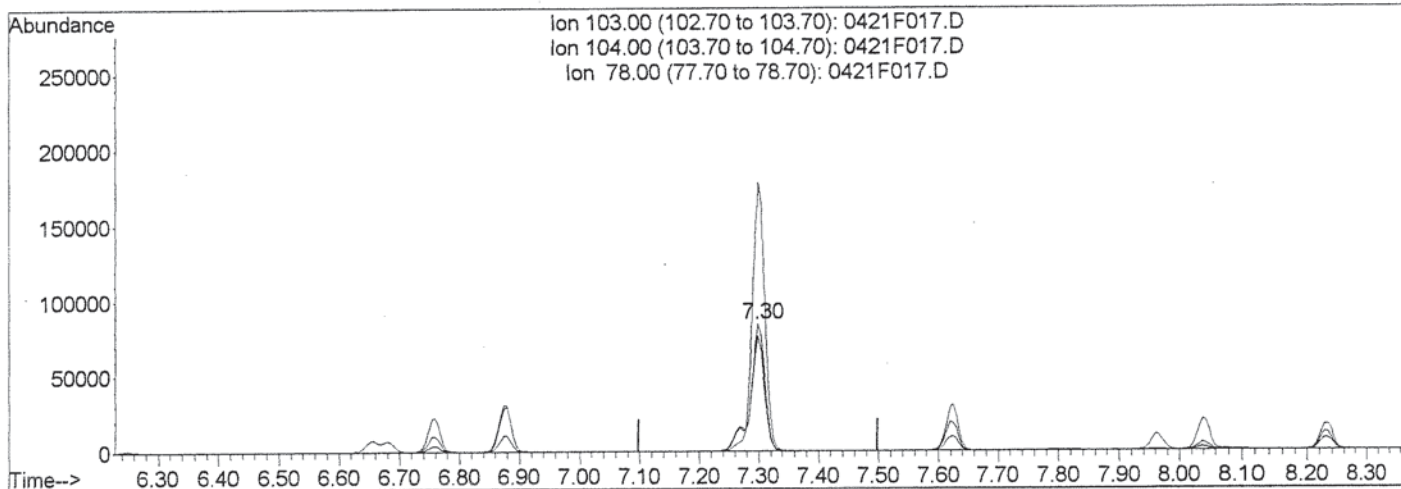
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F017.D  
 Acq On : 21 Apr 2010 5:07 pm  
 Sample : ICV  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 22 8:36 2010

Vial: 19  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Thu Apr 22 07:51:04 2010  
 Response via : Single Level Calibration



TIC: 0421F017.D

(75) Styrene (T)

7.30min 63.76PPB

response 142519

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 211.67 |
| 78.00  | 90.20  | 90.85  |
| 0.00   | 0.00   | 0.00   |



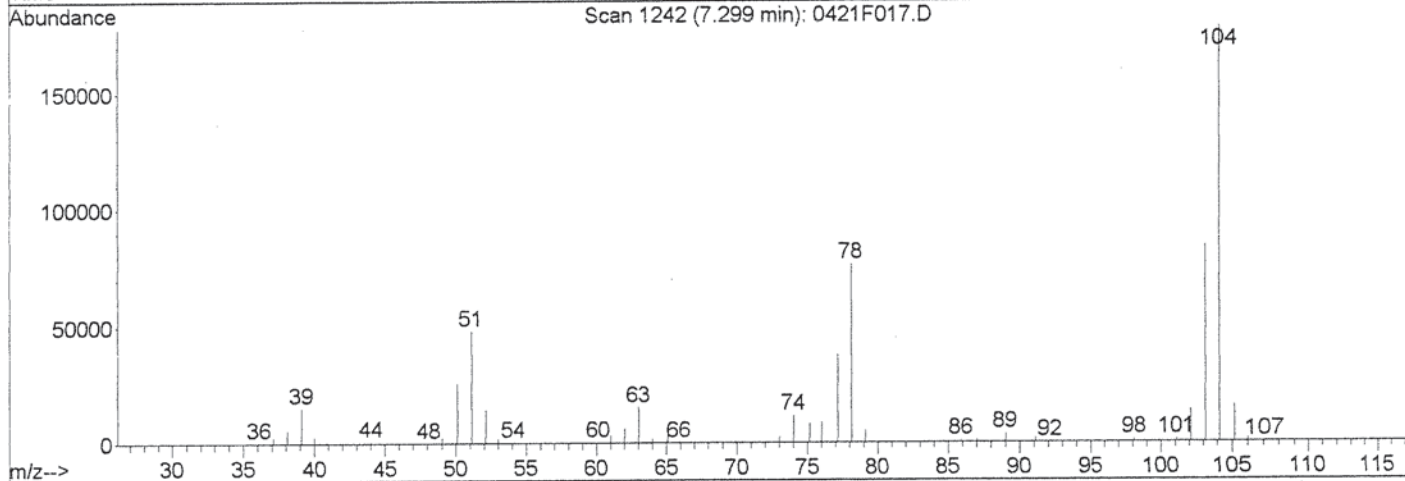
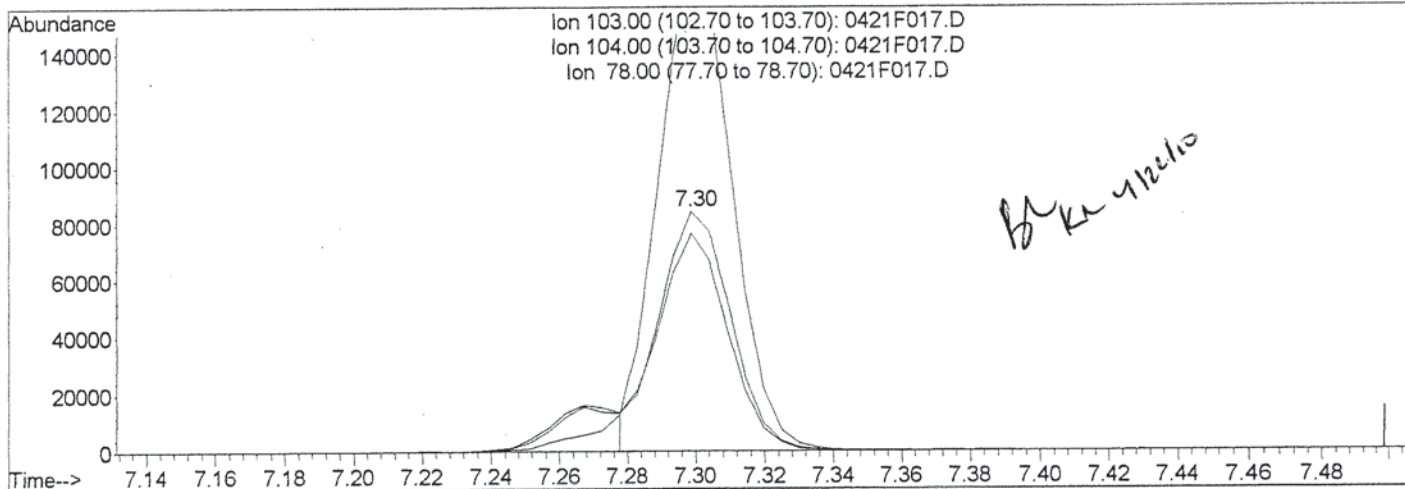
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F017.D  
Acq On : 21 Apr 2010 5:07 pm  
Sample : ICV  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Apr 22 8:36 2010

Vial: 19  
Operator: KR  
Inst : MS24  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
Title : VOA MS24 EPA Method 8260B  
Last Update : Thu Apr 22 07:51:04 2010  
Response via : Single Level Calibration



(75) Styrene (T)

7.30min 54.40PPB m

response 121581

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 200.50 | 211.67 |
| 78.00  | 90.20  | 90.85  |
| 0.00   | 0.00   | 0.00   |

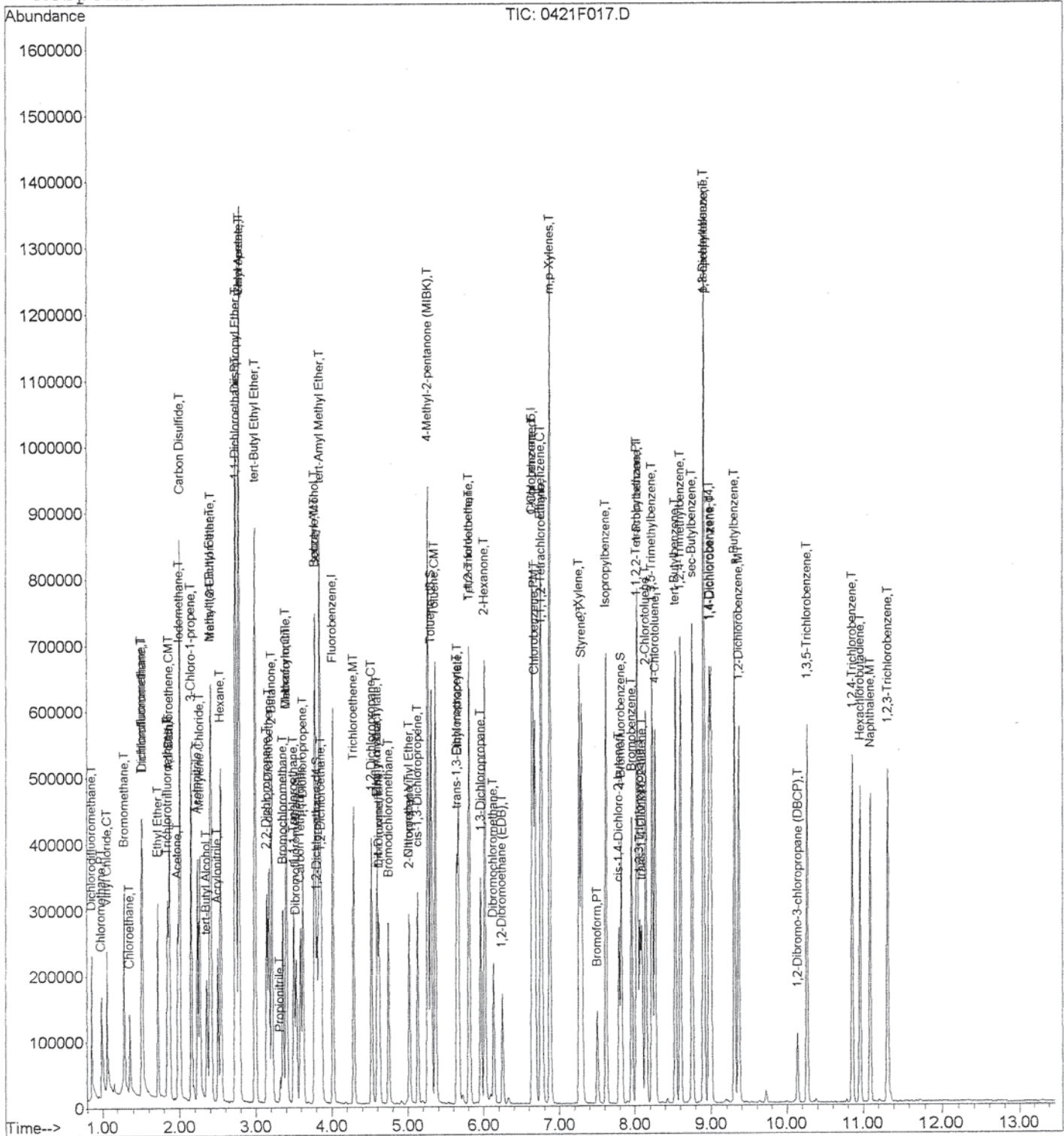
*Handwritten signature*

Data File : J:\MS24\DATA\042110\0421F017.D  
 Acq On : 21 Apr 2010 5:07 pm  
 Sample : ICV  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Apr 22 8:36 2010

Vial: 19  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Thu Apr 22 07:51:04 2010  
 Response via : Initial Calibration



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 05/25/2010

**Continuing Calibration Verification Summary  
 Volatile Organic Compounds**

**Calibration Type:** Internal Standard  
**Analysis Method:** 8260B

**Calibration Date:** 04/21/2010  
**Calibration ID:** CAL9404  
**Analysis Lot:** KWG1004880  
**Units:** PPB

**File ID:** J:\MS24\DATA\052510\0525F004.D

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| Dichlorodifluoromethane     | 50       | 36     | 0.01   | 0.309      | 0.221  | -29 | NA     | ± 40 %   | AverageRF |
| † Chloromethane             | 50       | 43     | 0.10   | 0.391      | 0.340  | -13 | NA     | ± 40 %   | AverageRF |
| ‡ Vinyl Chloride            | 50       | 42     | 0.01   | 0.347      | 0.294  | -15 | NA     | ± 20 %   | AverageRF |
| Bromomethane                | 50       | 34     | 0.01   | 0.289      | 0.199  | -31 | NA     | ± 40 %   | AverageRF |
| Chloroethane                | 50       | 46     | 0.01   | 0.226      | 0.206  | -9  | NA     | ± 40 %   | AverageRF |
| Trichlorofluoromethane      | 50       | 40     | 0.01   | 0.479      | 0.380  | -21 | NA     | ± 30 %   | AverageRF |
| ‡ 1,1-Dichloroethene        | 50       | 45     | 0.01   | 0.210      | 0.188  | -10 | NA     | ± 20 %   | AverageRF |
| Acetone                     | 100      | 92     | 0.01   | 0.116      | 0.107  | -8  | NA     | ± 30 %   | AverageRF |
| Carbon Disulfide            | 50       | 48     | 0.01   | 0.825      | 0.794  | -4  | NA     | ± 30 %   | AverageRF |
| Methylene Chloride          | 50       | 52     | 0.01   | 0.301      | 0.315  | 5   | NA     | ± 30 %   | AverageRF |
| trans-1,2-Dichloroethene    | 50       | 49     | 0.01   | 0.263      | 0.258  | -2  | NA     | ± 30 %   | AverageRF |
| † 1,1-Dichloroethane        | 50       | 50     | 0.10   | 0.518      | 0.518  | 0   | NA     | ± 30 %   | AverageRF |
| 2,2-Dichloropropane         | 50       | 49     | 0.01   | 0.355      | 0.347  | -2  | NA     | ± 30 %   | AverageRF |
| cis-1,2-Dichloroethene      | 50       | 49     | 0.01   | 0.291      | 0.286  | -2  | NA     | ± 30 %   | AverageRF |
| 2-Butanone (MEK)            | 100      | 92     | 0.01   | 0.0374     | 0.0343 | -8  | NA     | ± 30 %   | AverageRF |
| Bromochloromethane          | 50       | 49     | 0.01   | 0.143      | 0.140  | -2  | NA     | ± 30 %   | AverageRF |
| ‡ Chloroform                | 50       | 50     | 0.01   | 0.489      | 0.490  | 0   | NA     | ± 20 %   | AverageRF |
| 1,1,1-Trichloroethane (TCA) | 50       | 48     | 0.01   | 0.373      | 0.360  | -3  | NA     | ± 30 %   | AverageRF |
| Carbon Tetrachloride        | 50       | 48     | 0.01   | 0.321      | 0.308  | -4  | NA     | ± 30 %   | AverageRF |
| 1,1-Dichloropropene         | 50       | 50     | 0.01   | 0.335      | 0.337  | 0   | NA     | ± 30 %   | AverageRF |
| Benzene                     | 50       | 51     | 0.01   | 1.07       | 1.08   | 1   | NA     | ± 30 %   | AverageRF |
| 1,2-Dichloroethane (EDC)    | 50       | 49     | 0.01   | 0.432      | 0.423  | -2  | NA     | ± 30 %   | AverageRF |
| Trichloroethene (TCE)       | 50       | 52     | 0.01   | 0.282      | 0.294  | 4   | NA     | ± 30 %   | AverageRF |
| ‡ 1,2-Dichloropropane       | 50       | 50     | 0.01   | 0.284      | 0.284  | 0   | NA     | ± 20 %   | AverageRF |
| Dibromomethane              | 50       | 47     | 0.01   | 0.179      | 0.170  | -5  | NA     | ± 30 %   | AverageRF |
| Bromodichloromethane        | 50       | 52     | 0.01   | 0.358      | 0.371  | 4   | NA     | ± 30 %   | AverageRF |
| cis-1,3-Dichloropropene     | 50       | 54     | 0.01   | 0.399      | 0.434  | 9   | NA     | ± 30 %   | AverageRF |
| 4-Methyl-2-pentanone (MIBK) | 100      | 89     | 0.01   | 0.109      | 0.0973 | -11 | NA     | ± 30 %   | AverageRF |
| ‡ Toluene                   | 50       | 52     | 0.01   | 0.640      | 0.663  | 4   | NA     | ± 20 %   | AverageRF |
| trans-1,3-Dichloropropene   | 50       | 54     | 0.01   | 0.828      | 0.894  | 8   | NA     | ± 30 %   | AverageRF |
| 1,1,2-Trichloroethane       | 50       | 47     | 0.01   | 0.518      | 0.486  | -6  | NA     | ± 30 %   | AverageRF |
| Tetrachloroethene (PCE)     | 50       | 51     | 0.01   | 0.491      | 0.498  | 2   | NA     | ± 30 %   | AverageRF |
| 2-Hexanone                  | 100      | 93     | 0.01   | 0.0874     | 0.0817 | -7  | NA     | ± 30 %   | AverageRF |
| 1,3-Dichloropropane         | 50       | 48     | 0.01   | 1.03       | 1.00   | -3  | NA     | ± 30 %   | AverageRF |
| Dibromochloromethane        | 50       | 52     | 0.01   | 0.579      | 0.605  | 5   | NA     | ± 30 %   | AverageRF |
| 1,2-Dibromoethane (EDB)     | 50       | 49     | 0.01   | 0.566      | 0.549  | -3  | NA     | ± 30 %   | AverageRF |
| † Chlorobenzene             | 50       | 51     | 0.30   | 1.73       | 1.77   | 2   | NA     | ± 30 %   | AverageRF |
| ‡ Ethylbenzene              | 50       | 52     | 0.01   | 0.841      | 0.880  | 5   | NA     | ± 20 %   | AverageRF |
| 1,1,1,2-Tetrachloroethane   | 50       | 53     | 0.01   | 0.570      | 0.599  | 5   | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 05/25/2010

**Continuing Calibration Verification Summary  
 Volatile Organic Compounds**

**Calibration Type:** Internal Standard  
**Analysis Method:** 8260B

**Calibration Date:** 04/21/2010  
**Calibration ID:** CAL9404  
**Analysis Lot:** KWG1004880  
**Units:** PPB

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| m,p-Xylenes                 | 100      | 110    | 0.01   | 0.991      | 1.09   | 10  | NA     | ± 30 %   | AverageRF |
| o-Xylene                    | 50       | 52     | 0.01   | 0.995      | 1.04   | 5   | NA     | ± 30 %   | AverageRF |
| Styrene                     | 50       | 53     | 0.01   | 0.780      | 0.832  | 7   | NA     | ± 30 %   | AverageRF |
| † Bromoform                 | 50       | 53     | 0.10   | 0.352      | 0.375  | 7   | NA     | ± 30 %   | AverageRF |
| Isopropylbenzene            | 50       | 53     | 0.01   | 2.40       | 2.54   | 6   | NA     | ± 30 %   | AverageRF |
| † 1,1,2,2-Tetrachloroethane | 50       | 41     | 0.30   | 0.728      | 0.590  | -19 | NA     | ± 30 %   | AverageRF |
| Bromobenzene                | 50       | 55     | 0.01   | 0.785      | 0.856  | 9   | NA     | ± 30 %   | AverageRF |
| n-Propylbenzene             | 50       | 58     | 0.01   | 3.20       | 3.69   | 15  | NA     | ± 30 %   | AverageRF |
| 1,2,3-Trichloropropane      | 50       | 45     | 0.01   | 0.277      | 0.251  | -9  | NA     | ± 30 %   | AverageRF |
| 2-Chlorotoluene             | 50       | 55     | 0.01   | 2.01       | 2.20   | 9   | NA     | ± 30 %   | AverageRF |
| 1,3,5-Trimethylbenzene      | 50       | 56     | 0.01   | 2.25       | 2.50   | 11  | NA     | ± 30 %   | AverageRF |
| 4-Chlorotoluene             | 50       | 57     | 0.01   | 2.03       | 2.32   | 14  | NA     | ± 30 %   | AverageRF |
| tert-Butylbenzene           | 50       | 53     | 0.01   | 1.97       | 2.09   | 6   | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trimethylbenzene      | 50       | 55     | 0.01   | 2.30       | 2.53   | 10  | NA     | ± 30 %   | AverageRF |
| sec-Butylbenzene            | 50       | 54     | 0.01   | 2.94       | 3.18   | 8   | NA     | ± 30 %   | AverageRF |
| 4-Isopropyltoluene          | 50       | 54     | 0.01   | 2.45       | 2.63   | 7   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene         | 50       | 53     | 0.01   | 1.45       | 1.54   | 7   | NA     | ± 30 %   | AverageRF |
| 1,4-Dichlorobenzene         | 50       | 52     | 0.01   | 1.50       | 1.55   | 3   | NA     | ± 30 %   | AverageRF |
| n-Butylbenzene              | 50       | 56     | 0.01   | 2.17       | 2.43   | 12  | NA     | ± 30 %   | AverageRF |
| 1,2-Dichlorobenzene         | 50       | 51     | 0.01   | 1.42       | 1.45   | 2   | NA     | ± 30 %   | AverageRF |
| 1,2-Dibromo-3-chloropropane | 50       | 47     | 0.01   | 0.109      | 0.103  | -5  | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene      | 50       | 55     | 0.01   | 0.901      | 0.998  | 11  | NA     | ± 30 %   | AverageRF |
| Hexachlorobutadiene         | 50       | 62     | 0.01   | 0.451      | 0.555  | 23  | NA     | ± 30 %   | AverageRF |
| Naphthalene                 | 50       | 49     | 0.01   | 2.07       | 2.05   | -1  | NA     | ± 30 %   | AverageRF |
| 1,2,3-Trichlorobenzene      | 50       | 55     | 0.01   | 0.839      | 0.931  | 11  | NA     | ± 30 %   | AverageRF |
| Dibromofluoromethane        | 50       | 48     | 0.01   | 0.250      | 0.240  | -4  | NA     | ± 30 %   | AverageRF |
| Toluene-d8                  | 50       | 55     | 0.01   | 0.877      | 0.961  | 10  | NA     | ± 30 %   | AverageRF |
| 4-Bromofluorobenzene        | 50       | 56     | 0.01   | 0.767      | 0.854  | 11  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## Exception Report

**Data File:** J:\MS24\DATA\052510\0525F004.D  
**Lab ID:** KWG1004880-2  
**RunType:** CCV  
**Matrix:** SOIL

**Date Acquired:** 05/25/2010 10:34  
**Date Quantitated:** 05/25/2010 10:53  
**Batch ID:** KWG1004880  
**Analysis Method:** 8260B  
**MethodJoinID:** MJ120

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         |      | x    |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |

### Analyte Exceptions

| Exception Categories           | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|--------------------------------|--------------|--------|-----------|------------|-------------------|
| Initial Calibration Minimum RF | 1,4-Dioxane  | 0.0037 | 0.01      | NA         | NY                |

Primary Review: \_\_\_\_\_

Secondary Review: \_\_\_\_\_

*KA [Signature]*

*05/25/10*



# Quantitation Report

|  |                              |               |            |
|--|------------------------------|---------------|------------|
| Bottle ID:                                 | Tier:                        | Matrix:       | SOIL       |
| Prod Code: 8260B                           | Collect Date:                | Receive Date: | 05/25/2010 |
| Analysis Lot: KWG1004880                   |                              | Prep Lot:     |            |
| Analysis Method: 8260B                     |                              | Prep Method:  |            |
| Prep Ref:                                  |                              | Prep Date:    |            |
| Report Group:                              |                              |               |            |
| Quant Method: J:\MS24\METHODS\042110MS24SO | Calibration ID: CAL9404      |               |            |
| Title:                                     | Method ID: MJ120             |               |            |
| Tune Ref: J:\MS24\DATA\052510\0525F002.D   | Quant based on Method        |               |            |
| MB Ref:                                    |                              |               |            |
| Data File: J:\MS24\DATA\052510\0525F004.D  | Instrument: MS24             |               |            |
| Acqu Date: 05/25/2010 10:34                | Quant Date: 05/25/2010 10:53 | Vial: 4       |            |
| Run Type: CCV                              | Dilution: 1.0                |               |            |
| Lab ID: KWG1004880-2                       | Soln Conc. Units: PPB        |               |            |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT   | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|------|--------|------------|----------|---------------|---------------|
| 1      | Fluorobenzene          | 4.02 | 0.00   | 96         | 367346   | 50.00         | OK            |
| 2      | Chlorobenzene-d5       | 6.65 | 0.00   | 82         | 157615   | 50.00         | OK            |
| 3      | 1,4-Dichlorobenzene-d4 | 8.98 | 0.00   | 152        | 137921   | 50.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name        | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|-----------------------|------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | Dibromofluoromethane  | 3.54 |        |         | 113        | 88180    | 48.03         |      | 43-153      | NA   |
| 1      | 1,2-Dichloroethane-d4 | 3.81 |        |         | 65         | 120994   | 45.65         |      | 64-142      | NA   |
| 1      | Toluene-d8            | 5.31 |        |         | 98         | 352998   | 54.82         |      | 49-151      | NA   |
| 2      | 4-Bromofluorobenzene  | 7.83 |        |         | 95         | 134640   | 55.66         |      | 33-150      | NA   |

## Target Compounds

| IS Ref | Parameter Name                | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-------------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | Dichlorodifluoromethane       | 0.86 |        |         | 85         | 81049    | 35.74         |            |   |      |
| 1      | Chloromethane                 | 0.99 |        |         | 50         | 124932   | 43.45         |            |   |      |
| 1      | Vinyl Chloride                | 1.06 |        |         | 62         | 108148   | 42.40         |            |   |      |
| 1      | Bromomethane                  | 1.30 |        |         | 96         | 73155    | 34.48         |            |   |      |
| 1      | Chloroethane                  | 1.37 |        |         | 64         | 75717    | 45.54         |            |   |      |
| 1      | Dichlorofluoromethane (CFC 21 | 1.52 |        |         | 67         | 184580   | 44.25         |            |   |      |
| 1      | Trichlorofluoromethane        | 1.51 |        |         | 101        | 139444   | 39.65         |            |   |      |
| 1      | Diethyl Ether                 | 1.73 |        |         | 59         | 96893    | 46.06         |            |   |      |
| 1      | Acrolein                      | 1.87 |        |         | 56         | 103627   | 255.10        |            |   |      |
| 1      | Trichlorotrifluoroethane      | 1.86 |        |         | 151        | 59948    | 44.59         |            |   |      |
| 1      | 1,1-Dichloroethene            | 1.88 |        |         | 96         | 69154    | 44.83         |            |   |      |
| 1      | Acetone                       | 1.98 |        |         | 43         | 78331    | 91.58         |            |   |      |
| 1      | Iodomethane (Methyl Iodide)   | 2.00 |        |         | 142        | 194899   | 92.50         |            |   |      |
| 1      | Carbon Disulfide              | 2.01 |        |         | 76         | 291799   | 48.14         |            |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F004.D  
 Acqu Date: 05/25/2010 10:34  
 Run Type: CCV  
 Lab ID: KWG1004880-2

Quant Date: 05/25/2010 10:53

Instrument: MS24  
 Vial: 4  
 Dilution: 1.0  
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name              | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | 3-Chloro-1-propene          | 2.16 |        |         | 76         | 54453    | 49.35         |            |   |      |
| 1      | Acetonitrile                | 2.23 |        |         | 40         | 152951   | 910.64        |            |   |      |
| 1      | Methylene Chloride          | 2.27 |        |         | 84         | 115560   | 52.26         |            |   |      |
| 1      | tert-Butyl Alcohol          | 2.35 |        |         | 59         | 58341    | 190.20        |            |   |      |
| 1      | Acrylonitrile               | 2.50 |        |         | 53         | 77470    | 90.62         |            |   |      |
| 1      | Methyl tert-Butyl Ether     | 2.40 |        |         | 73         | 612671   | 94.76         |            |   |      |
| 1      | trans-1,2-Dichloroethene    | 2.42 |        |         | 96         | 94898    | 49.19         |            |   |      |
| 1      | n-Hexane                    | 2.54 |        |         | 57         | 141703   | 53.59         |            |   |      |
| 1      | Diisopropyl Ether           | 2.74 |        |         | 45         | 369726   | 50.87         |            |   |      |
| 1      | 1,1-Dichloroethane          | 2.75 |        |         | 63         | 190297   | 50.00         |            |   |      |
| 1      | Vinyl Acetate               | 2.78 |        |         | 86         | 17901    | 50.54         |            |   |      |
| 1      | Chloroprene                 | 2.78 |        |         | 53         | 262117   | 101.25        |            |   |      |
| 1      | tert-Butyl Ethyl Ether      | 2.99 |        |         | 59         | 317069   | 48.05         |            |   |      |
| 1      | 2,2-Dichloropropane         | 3.15 |        |         | 77         | 127446   | 48.85         |            |   |      |
| 1      | cis-1,2-Dichloroethene      | 3.18 |        |         | 96         | 105220   | 49.15         |            |   |      |
| 1      | 2-Butanone (MEK)            | 3.21 |        |         | 72         | 25207    | 91.62         |            |   |      |
| 1      | Propionitrile               | 3.32 |        |         | 54         | 29396    | 86.28         |            |   |      |
| 1      | Methacrylonitrile           | 3.40 |        |         | 67         | 84139    | 93.00         |            |   |      |
| 1      | Bromochloromethane          | 3.36 |        |         | 128        | 51344    | 48.92         |            |   |      |
| 1      | Chloroform                  | 3.41 |        |         | 83         | 179920   | 50.10         |            |   |      |
| 1      | 1,1,1-Trichloroethane (TCA) | 3.51 |        |         | 97         | 132422   | 48.29         |            |   |      |
| 1      | Carbon Tetrachloride        | 3.59 |        |         | 117        | 113019   | 47.92         |            |   |      |
| 1      | 1,1-Dichloropropene         | 3.63 |        |         | 75         | 123612   | 50.16         |            |   |      |
| 1      | Isobutanol                  | 3.78 |        |         | 43         | 99085    | 881.85        |            |   |      |
| 1      | Benzene                     | 3.79 |        |         | 78         | 395295   | 50.51         |            |   |      |
| 1      | 1,2-Dichloroethane (EDC)    | 3.87 |        |         | 62         | 155447   | 48.96         |            |   |      |
| 1      | tert-Amyl Methyl Ether      | 3.84 |        |         | 55         | 85586    | 50.47         |            |   |      |
| 1      | Trichloroethene (TCE)       | 4.29 |        |         | 95         | 108062   | 52.23         |            |   |      |
| 1      | 1,2-Dichloropropane         | 4.53 |        |         | 63         | 104436   | 50.10         |            |   |      |
| 1      | Dibromomethane              | 4.62 |        |         | 93         | 62550    | 47.48         |            |   |      |
| 1      | Methyl Methacrylate         | 4.60 |        |         | 69         | 68133    | 46.70         |            |   |      |
| 1      | 1,4-Dioxane                 | 4.62 |        |         | 88         | 24691    | 916.06        |            |   |      |
| 1      | Bromodichloromethane        | 4.75 |        |         | 83         | 136276   | 51.85         |            |   |      |
| 1      | 2-Nitropropane              | 5.02 |        |         | 41         | 76751    | 140.55        |            |   |      |
| 1      | 2-Chloroethyl Vinyl Ether   | 5.02 |        |         | 63         | 61066    | 47.39         |            |   |      |
| 1      | cis-1,3-Dichloropropene     | 5.13 |        |         | 75         | 159520   | 54.38         |            |   |      |
| 1      | 4-Methyl-2-pentanone (MIBK) | 5.27 |        |         | 58         | 71481    | 89.29         |            |   |      |
| 1      | Toluene                     | 5.37 |        |         | 92         | 243471   | 51.79         |            |   |      |
| 2      | trans-1,3-Dichloropropene   | 5.65 |        |         | 75         | 140921   | 54.02         |            |   |      |
| 2      | Ethyl Methacrylate          | 5.67 |        |         | 69         | 120223   | 48.45         |            |   |      |
| 2      | 1,1,2-Trichloroethane       | 5.81 |        |         | 83         | 76617    | 46.93         |            |   |      |
| 2      | Tetrachloroethene (PCE)     | 5.82 |        |         | 164        | 78497    | 50.77         |            |   |      |

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D: Result from dilution  
 m: Manual integration performed  
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\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File: J:\MS24\DATA\052510\0525F004.D

Instrument: MS24

Acqu Date: 05/25/2010 10:34

Quant Date: 05/25/2010 10:53

Vial: 4

Run Type: CCV

Dilution: 1.0

Lab ID: KWG1004880-2

Soln Conc. Units: PPB

## Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name              | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 2      | 2-Hexanone                  | 6.02  |        |         | 57         | 25745    | 93.42         |            |   |      |
| 2      | 1,3-Dichloropropane         | 5.97  |        |         | 76         | 157613   | 48.47         |            |   |      |
| 2      | Dibromochloromethane        | 6.13  |        |         | 129        | 95404    | 52.26         |            |   |      |
| 2      | 1,2-Dibromoethane (EDB)     | 6.25  |        |         | 107        | 86483    | 48.50         |            |   |      |
| 2      | 1-Chlorohexane              | 6.64  |        |         | 91         | 118415   | 52.84         |            |   |      |
| 2      | Chlorobenzene               | 6.68  |        |         | 112        | 278864   | 51.25         |            |   |      |
| 2      | Ethylbenzene                | 6.76  |        |         | 106        | 138723   | 52.35         |            |   |      |
| 2      | 1,1,1,2-Tetrachloroethane   | 6.77  |        |         | 131        | 94383    | 52.57         |            |   |      |
| 2      | m,p-Xylenes                 | 6.87  |        |         | 106        | 343467   | 109.99        |            |   |      |
| 2      | o-Xylene                    | 7.27  |        |         | 106        | 163954   | 52.30         |            |   |      |
| 2      | Styrene                     | 7.30  |        |         | 103        | 131072m  | 53.31         |            |   |      |
| 2      | Bromoform                   | 7.51  |        |         | 173        | 59120    | 53.31         |            |   |      |
| 2      | Isopropylbenzene            | 7.62  |        |         | 105        | 400807   | 52.93         |            |   |      |
| 2      | cis-1,4-Dichloro-2-butene   | 7.80  |        |         | 89         | 22339    | 104.63        |            |   |      |
| 3      | 1,1,2,2-Tetrachloroethane   | 8.03  |        |         | 83         | 81363    | 40.52         |            |   |      |
| 3      | trans-1,4-Dichloro-2-butene | 8.10  |        |         | 53         | 24814    | 52.20         |            |   |      |
| 3      | Bromobenzene                | 7.96  |        |         | 156        | 118080   | 54.53         |            |   |      |
| 3      | n-Propylbenzene             | 8.04  |        |         | 91         | 509266   | 57.64         |            |   |      |
| 3      | 1,2,3-Trichloropropane      | 8.07  |        |         | 110        | 34562    | 45.30         |            |   |      |
| 3      | 2-Chlorotoluene             | 8.15  |        |         | 91         | 302866   | 54.68         |            |   |      |
| 3      | 1,3,5-Trimethylbenzene      | 8.23  |        |         | 105        | 345458   | 55.65         |            |   |      |
| 3      | 4-Chlorotoluene             | 8.27  |        |         | 91         | 320096   | 57.23         |            |   |      |
| 3      | tert-Butylbenzene           | 8.54  |        |         | 119        | 288560   | 53.06         |            |   |      |
| 3      | 1,2,4-Trimethylbenzene      | 8.60  |        |         | 105        | 349121   | 54.99         |            |   |      |
| 3      | sec-Butylbenzene            | 8.76  |        |         | 105        | 437935   | 54.04         |            |   |      |
| 3      | 4-Isopropyltoluene          | 8.91  |        |         | 119        | 362811   | 53.66         |            |   |      |
| 3      | 1,3-Dichlorobenzene         | 8.90  |        |         | 146        | 213066   | 53.35         |            |   |      |
| 3      | 1,4-Dichlorobenzene         | 9.00  |        |         | 146        | 213424   | 51.60         |            |   |      |
| 3      | n-Butylbenzene              | 9.31  |        |         | 91         | 334877   | 56.07         |            |   |      |
| 3      | 1,2-Dichlorobenzene         | 9.36  |        |         | 146        | 200204   | 51.00         |            |   |      |
| 3      | 1,2-Dibromo-3-chloropropane | 10.14 |        |         | 155        | 14246    | 47.49         |            |   |      |
| 3      | 1,2,4-Trichlorobenzene      | 10.86 |        |         | 180        | 137699   | 55.42         |            |   |      |
| 3      | Hexachlorobutadiene         | 10.96 |        |         | 225        | 76515    | 61.54         |            |   |      |
| 3      | Naphthalene                 | 11.09 |        |         | 128        | 282079   | 49.36         |            |   |      |
| 3      | 1,2,3-Trichlorobenzene      | 11.32 |        |         | 180        | 128407   | 55.49         |            |   |      |

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 c: check for co-elution

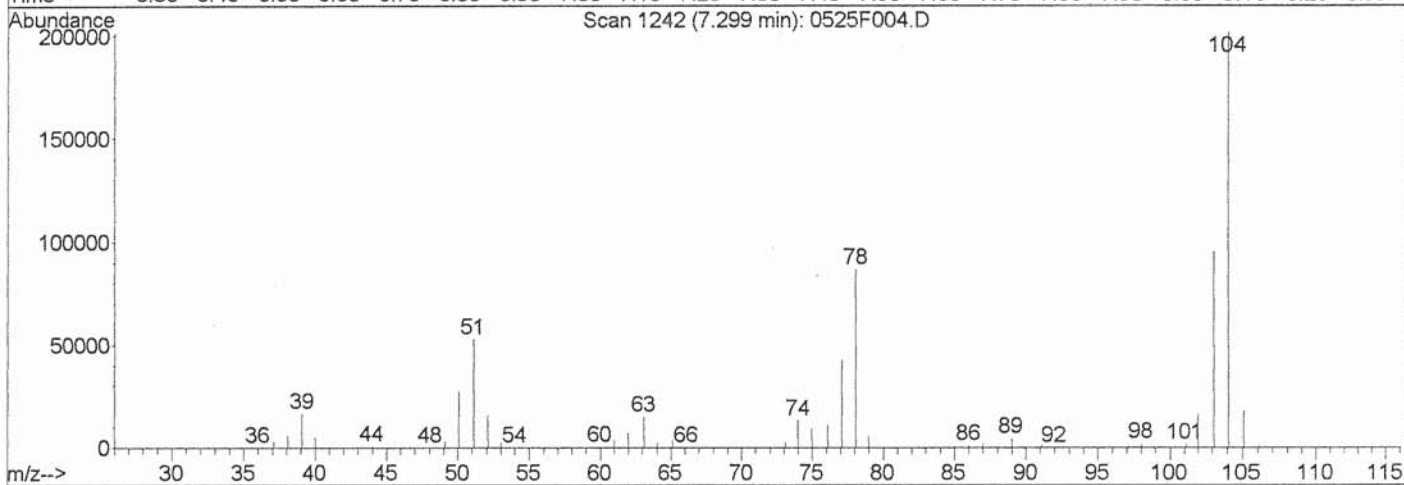
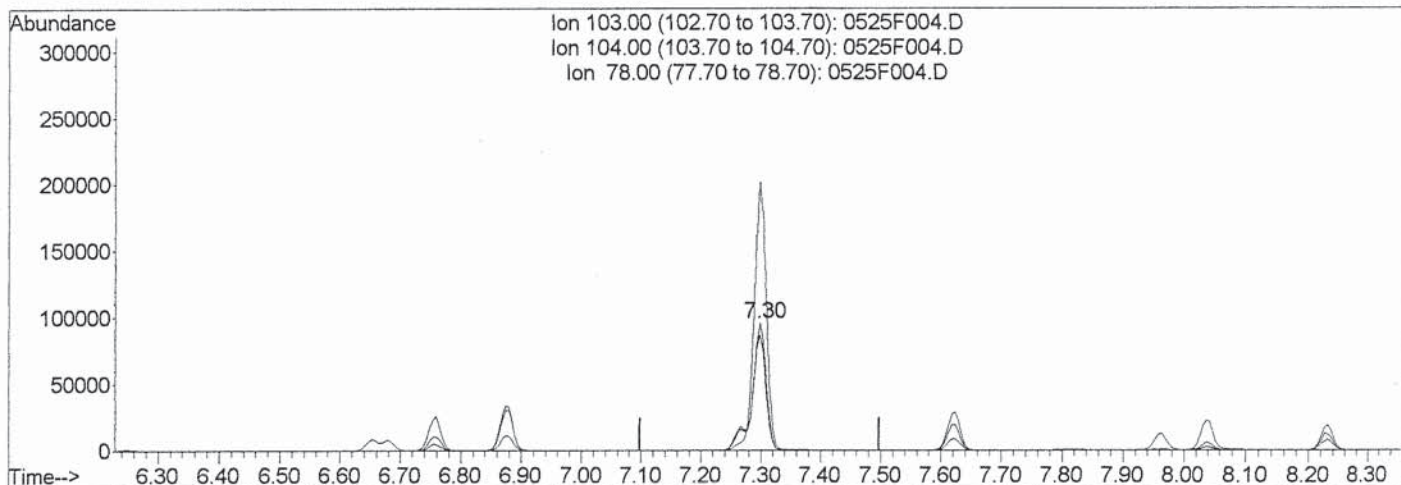
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F004.D  
 Acq On : 25 May 2010 10:34 am  
 Sample : CCV W/IS  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: May 25 10:53 2010

Vial: 4  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Mon May 10 10:34:02 2010  
 Response via : Single Level Calibration



TIC: 0525F004.D

(75) Styrene (T)

7.30min 62.66PPB

response 154044

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 208.80 | 211.41 |
| 78.00  | 88.30  | 90.93  |
| 0.00   | 0.00   | 0.00   |



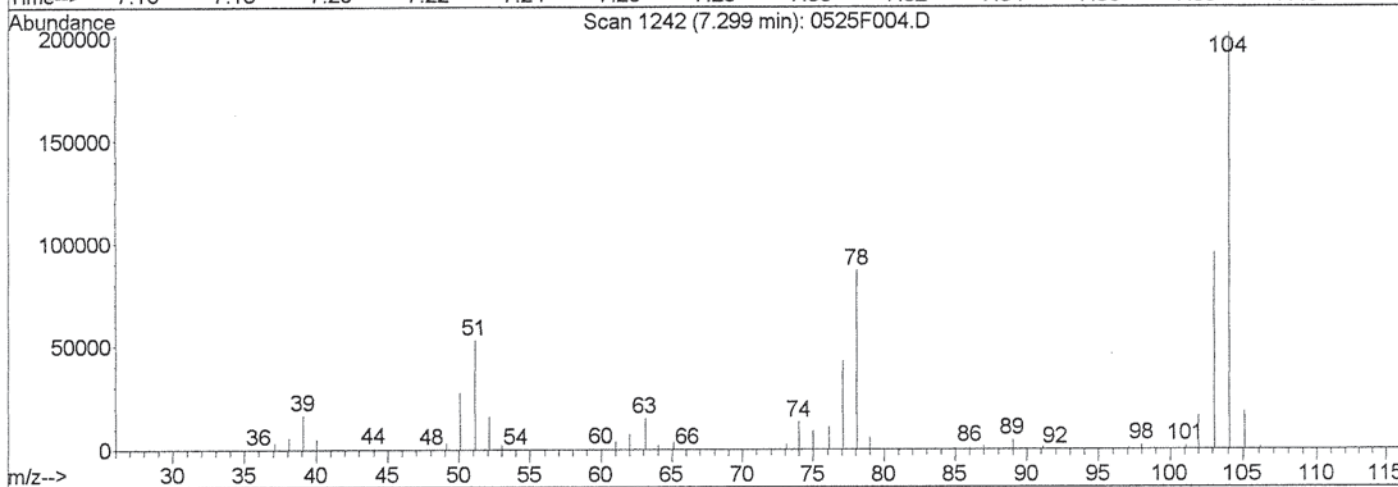
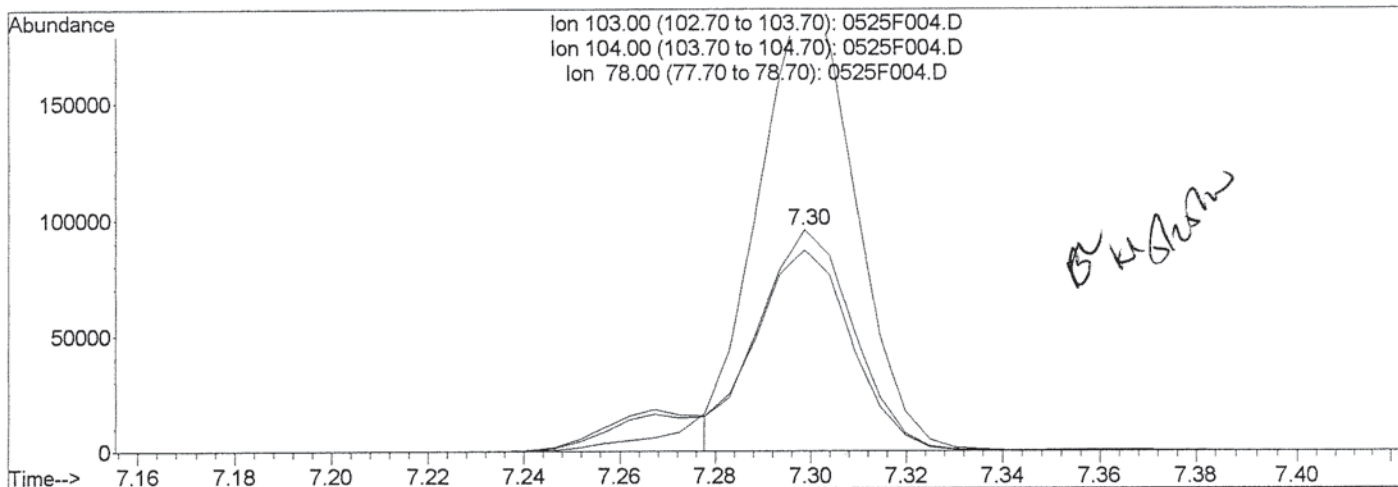
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F004.D  
 Acq On : 25 May 2010 10:34 am  
 Sample : CCV W/IS  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: May 25 10:53 2010

Vial: 4  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Mon May 10 10:34:02 2010  
 Response via : Single Level Calibration



(75) Styrene (T)

7.30min 53.31PPB m

response 131072

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 103.00 | 100    | 100    |
| 104.00 | 208.80 | 211.41 |
| 78.00  | 88.30  | 90.93  |
| 0.00   | 0.00   | 0.00   |

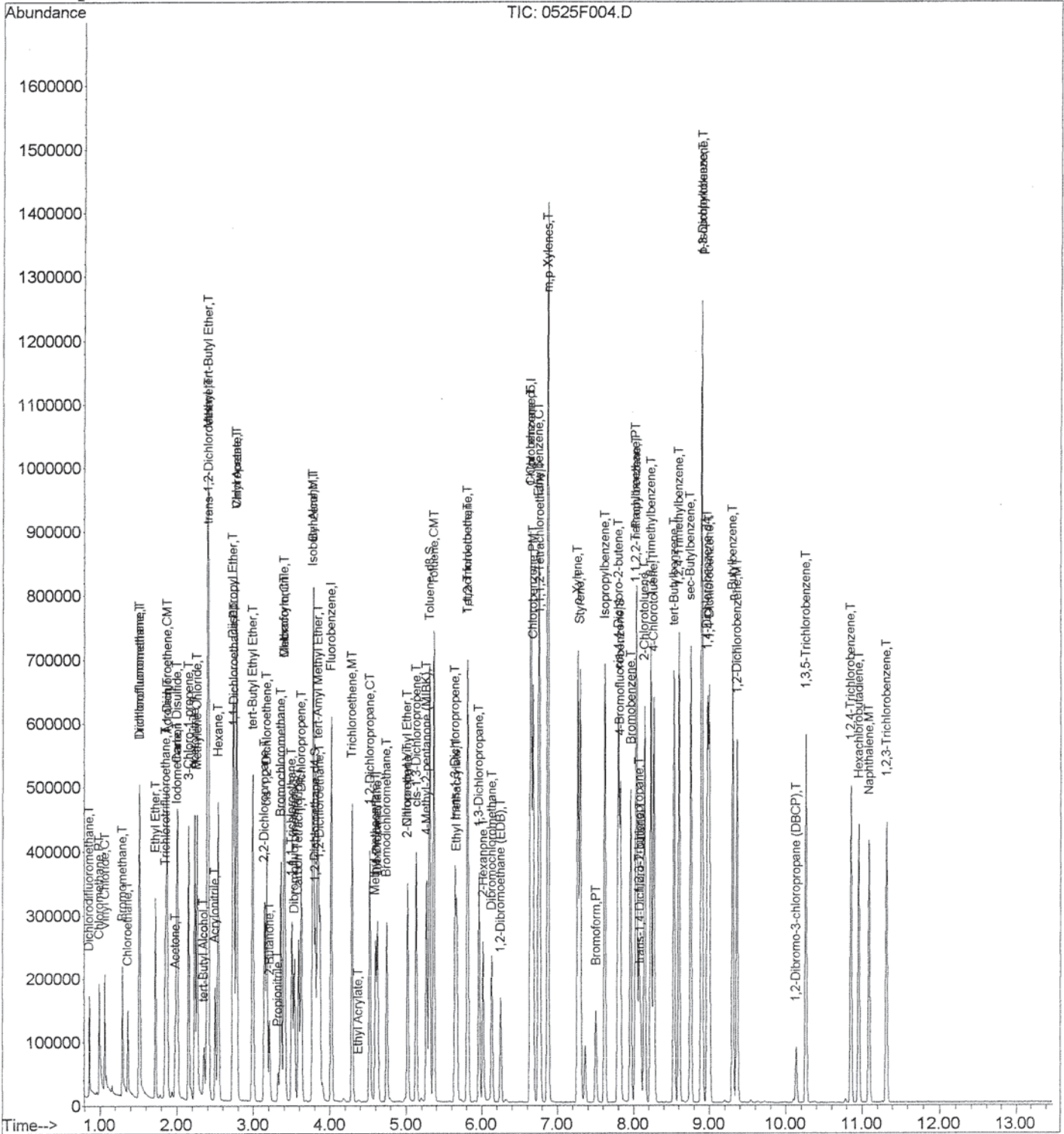
*Calc 5/25/10*

Data File : J:\MS24\DATA\052510\0525F004.D  
 Acq On : 25 May 2010 10:34 am  
 Sample : CCV W/IS  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: May 25 10:53 2010

Vial: 4  
 Operator: KR  
 Inst : MS24  
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)  
 Title : VOA MS24 EPA Method 8260B  
 Last Update : Mon May 10 10:34:02 2010  
 Response via : Initial Calibration





Organic Analysis:  
Volatile Organic Compounds

Validation Package

Sample Prep and Screen Data

Date: 5/25/10

Columbia Analytical Services, Inc. Tune File: tshw.u

By: KA

### Injection Log

New Tune: yes

IS/SS Std. ID: SBW07-610

MS24 - Agilent 5975 202159

ICAL Date: 4/12/10 Cal 9404

CCV Std ID: SBW07-640

MS/DMS/LCS/ICV Std ID: SBW07/13/180/15B/67F

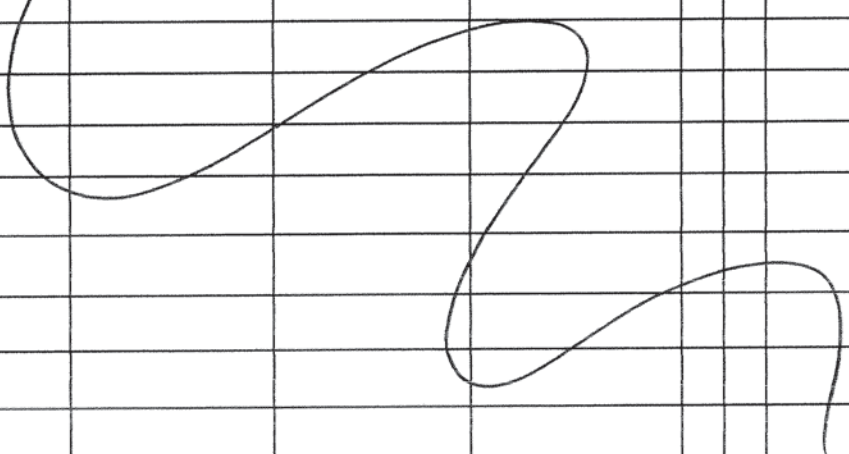
Second RV: Cal 5/25/10

BFB Std. ID: SBW07-71B

LIMS ID: KW07004800/4900

|    | Sample Name             | File Name          | Method | Dilution           | pH | R | Comments            |
|----|-------------------------|--------------------|--------|--------------------|----|---|---------------------|
| 1  | IB                      | 0525F001           | 8260.M |                    |    |   |                     |
| 2  | BFB                     |                    | 2      | 1ul → 50ml         |    |   | New Tune            |
| 3  | CCV                     |                    | 3      | 25ul → 50ml        |    |   | NO IS/SS added (NR) |
| 4  | CCV                     |                    | 4      | 25ul → 50ml        |    |   |                     |
| 5  | LCS                     |                    | 5      | 50/50/10/10 → 50ml |    |   |                     |
| 6  | DMS                     |                    | 6      | ↓                  |    |   |                     |
| 7  | IB                      |                    | 7      |                    |    |   |                     |
| 8  | MU                      |                    | 8      | 1ul → 50ml         |    |   |                     |
| 9  | MU                      |                    | 9      |                    |    |   |                     |
| 10 | K5202-10                |                    | 10     |                    |    |   |                     |
| 11 |                         |                    | 11     |                    |    |   |                     |
| 12 | K5093- <del>K5202</del> | <del>K5202-3</del> | 12     |                    |    |   |                     |
| 13 |                         | 3mg                | 13     | 50/50/10/10 → 50ml |    |   |                     |
| 14 |                         | 20mg               | 14     | ↓                  |    |   |                     |
| 15 |                         | 1B                 | 15     |                    |    |   |                     |
| 16 |                         | 1R                 | 16     | ↓                  |    |   |                     |
| 17 |                         | 10R                | 17     | ↓                  |    |   |                     |
| 18 |                         |                    |        |                    |    |   |                     |
| 19 |                         |                    |        |                    |    |   |                     |
| 20 |                         |                    |        |                    |    |   |                     |
| 21 |                         |                    |        |                    |    |   |                     |
| 22 |                         |                    |        |                    |    |   |                     |
| 23 |                         |                    |        |                    |    |   |                     |
| 24 |                         |                    |        |                    |    |   |                     |
| 25 |                         |                    |        |                    |    |   |                     |
| 26 |                         |                    |        |                    |    |   |                     |
| 27 |                         |                    |        |                    |    |   |                     |

KA 5/25/10  
 SBW07-610  
 SBW07-640  
 SBW07-71B







## **Semi-Volatile Organic Compounds**



Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Summary Package

Sample and QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

**Cover Page - Organic Analysis Data Package  
Semi-Volatile Organic Compounds by GC/MS**

| Sample Name | Lab Code     | Date Collected | Date Received |
|-------------|--------------|----------------|---------------|
| D-4-16      | K1005244-003 | 05/19/2010     | 05/21/2010    |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  \_\_\_\_\_

Name:  \_\_\_\_\_

Date:  \_\_\_\_\_

Title:  \_\_\_\_\_



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: 05/19/2010  
 Date Received: 05/21/2010

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: D-4-16  
 Lab Code: K1005244-003  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | ND     | U | 2.0  | 0.026  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Aniline                      | ND     | U | 0.98 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | ND     | U | 0.33 | 0.012  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenol                       | ND     | U | 0.33 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chlorophenol               | ND     | U | 0.33 | 0.0099 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | ND     | U | 0.33 | 0.019  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzyl Alcohol               | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylphenol               | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachloroethane             | ND     | U | 0.33 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | ND     | U | 0.33 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Methylphenol†              | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Nitrobenzene                 | ND     | U | 0.33 | 0.027  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Isophorone                   | ND     | U | 0.33 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitrophenol                | ND     | U | 0.33 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | ND     | U | 0.33 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzoic Acid                 | ND     | U | 2.0  | 0.14   | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Naphthalene                  | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloroaniline              | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobutadiene          | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | ND     | U | 0.33 | 0.013  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | ND     | U | 0.33 | 0.010  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitroaniline               | ND     | U | 2.0  | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthylene               | ND     | U | 0.33 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: 05/19/2010  
 Date Received: 05/21/2010

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: D-4-16  
 Lab Code: K1005244-003  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | ND     | U | 0.33 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | ND     | U | 0.33 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthene                | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3-Nitroaniline              | ND     | U | 2.0  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | ND     | U | 2.0  | 0.12  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenzofuran                | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitrophenol               | ND     | U | 2.0  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluorene                    | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | ND     | U | 0.33 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Diethyl Phthalate           | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitroaniline              | ND     | U | 2.0  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | ND     | U | 2.0  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | ND     | U | 0.33 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobenzene           | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pentachlorophenol           | ND     | U | 2.0  | 0.13  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenanthrene                | ND     | U | 0.33 | 0.010 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Anthracene                  | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluoranthene                | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pyrene                      | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | ND     | U | 0.33 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | ND     | U | 2.0  | 0.027 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benz(a)anthracene           | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Chrysene                    | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 0.076  | J | 0.33 | 0.019 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | ND     | U | 0.33 | 0.024 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | ND     | U | 0.33 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | ND     | U | 0.33 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(a)pyrene              | ND     | U | 0.33 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | ND     | U | 0.33 | 0.039 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | ND     | U | 0.33 | 0.028 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** 05/19/2010  
**Date Received:** 05/21/2010

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** D-4-16  
**Lab Code:** K1005244-003  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | ND     | U | 0.33 | 0.021 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 28   | 20-83          | 06/11/10      | Acceptable |
| Phenol-d6            | 45   | 23-90          | 06/11/10      | Acceptable |
| Nitrobenzene-d5      | 51   | 29-100         | 06/11/10      | Acceptable |
| 2-Fluorobiphenyl     | 66   | 32-104         | 06/11/10      | Acceptable |
| 2,4,6-Tribromophenol | 22   | 20-123         | 06/11/10      | Acceptable |
| Terphenyl-d14        | 97   | 37-133         | 06/11/10      | Acceptable |

† Analyte Comments

4-Methylphenol                      This analyte cannot be separated from 3-Methylphenol.

Comments: \_\_\_\_\_



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: KWG1005659-5  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | ND     | U | 1.5  | 0.026  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Aniline                      | ND     | U | 0.74 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | ND     | U | 0.25 | 0.012  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenol                       | ND     | U | 0.25 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chlorophenol               | ND     | U | 0.25 | 0.0099 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | ND     | U | 0.25 | 0.019  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzyl Alcohol               | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylphenol               | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachloroethane             | ND     | U | 0.25 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | ND     | U | 0.25 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Methylphenol†              | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Nitrobenzene                 | ND     | U | 0.25 | 0.027  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Isophorone                   | ND     | U | 0.25 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitrophenol                | ND     | U | 0.25 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | ND     | U | 0.25 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzoic Acid                 | ND     | U | 1.5  | 0.14   | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Naphthalene                  | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloroaniline              | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobutadiene          | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | ND     | U | 0.25 | 0.013  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | ND     | U | 0.25 | 0.010  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitroaniline               | ND     | U | 1.5  | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthylene               | ND     | U | 0.25 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: KWG1005659-5  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | ND     | U | 0.25 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | ND     | U | 0.25 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | ND     | U | 1.5  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | ND     | U | 1.5  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | ND     | U | 1.5  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | ND     | U | 0.25 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | ND     | U | 1.5  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | ND     | U | 1.5  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | ND     | U | 0.25 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | ND     | U | 1.5  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | ND     | U | 0.25 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | ND     | U | 0.25 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | ND     | U | 1.5  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | ND     | U | 0.25 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | ND     | U | 0.25 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | ND     | U | 0.25 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | ND     | U | 0.25 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | ND     | U | 0.25 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | ND     | U | 0.25 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | ND     | U | 0.25 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** KWG1005659-5  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | ND     | U | 0.25 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 56   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 55   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 54   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 66   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 65   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 100  | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244

**Surrogate Recovery Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: PERCENT  
 Level: Low

| <u>Sample Name</u>           | <u>Lab Code</u> | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> | <u>Sur4</u> | <u>Sur5</u> | <u>Sur6</u> |
|------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| D-4-16                       | K1005244-003    | 28          | 45          | 51          | 66          | 22          | 97          |
| Method Blank                 | KWG1005659-5    | 56          | 55          | 54          | 66          | 65          | 100         |
| Batch QC                     | K1005175-012    | 56          | 58          | 53          | 60          | 72          | 90          |
| Batch QCMS                   | KWG1005659-1    | 59          | 64          | 65          | 68          | 78          | 78          |
| Batch QCDMS                  | KWG1005659-2    | 60          | 66          | 66          | 65          | 73          | 75          |
| Lab Control Sample           | KWG1005659-3    | 59          | 66          | 74          | 75          | 95          | 92          |
| Duplicate Lab Control Sample | KWG1005659-4    | 64          | 74          | 76          | 77          | 85          | 87          |

**Surrogate Recovery Control Limits (%)**

|                         |        |                             |        |
|-------------------------|--------|-----------------------------|--------|
| Sur1 = 2-Fluorophenol   | 20-83  | Sur5 = 2,4,6-Tribromophenol | 20-123 |
| Sur2 = Phenol-d6        | 23-90  | Sur6 = Terphenyl-d14        | 37-133 |
| Sur3 = Nitrobenzene-d5  | 29-100 |                             |        |
| Sur4 = 2-Fluorobiphenyl | 32-104 |                             |        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 15:32

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F002.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005663-2  
 Analysis Lot: KWG1005663

|                 | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |       | Acenaphthene-d10 |       |
|-----------------|------------------------|------|----------------|-------|------------------|-------|
|                 | Area                   | RT   | Area           | RT    | Area             | RT    |
| Results ==>     | 109,990                | 9.33 | 420,027        | 11.44 | 219,736          | 14.29 |
| Upper Limit ==> | 219,980                | 9.83 | 840,054        | 11.94 | 439,472          | 14.79 |
| Lower Limit ==> | 54,995                 | 8.83 | 210,014        | 10.94 | 109,868          | 13.79 |
| ICAL Result ==> | 103,733                | 9.34 | 407,774        | 11.45 | 224,107          | 14.30 |

Associated Analyses

|                              |              |        |      |         |       |         |       |
|------------------------------|--------------|--------|------|---------|-------|---------|-------|
| Method Blank                 | KWG1005659-5 | 85,541 | 9.33 | 294,990 | 11.43 | 165,284 | 14.29 |
| Lab Control Sample           | KWG1005659-3 | 82,022 | 9.33 | 303,037 | 11.43 | 175,397 | 14.30 |
| Duplicate Lab Control Sample | KWG1005659-4 | 82,853 | 9.33 | 328,582 | 11.44 | 180,044 | 14.29 |
| Batch QCMS                   | KWG1005659-1 | 86,297 | 9.33 | 318,991 | 11.43 | 167,887 | 14.30 |
| Batch QCDMS                  | KWG1005659-2 | 93,653 | 9.33 | 364,424 | 11.43 | 186,774 | 14.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 15:32

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F002.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005663-2  
 Analysis Lot: KWG1005663

|                 | Phenanthrene-d10 |           | Chrysene-d12 |           | Perylene-d12 |           |
|-----------------|------------------|-----------|--------------|-----------|--------------|-----------|
|                 | <u>Area</u>      | <u>RT</u> | <u>Area</u>  | <u>RT</u> | <u>Area</u>  | <u>RT</u> |
| Results ==>     | 325,013          | 16.70     | 353,756      | 21.13     | 274,061      | 24.31     |
| Upper Limit ==> | 650,026          | 17.20     | 707,512      | 21.63     | 548,122      | 24.81     |
| Lower Limit ==> | 162,507          | 16.20     | 176,878      | 20.63     | 137,031      | 23.81     |
| ICAL Result ==> | 285,196          | 16.70     | 279,166      | 21.13     | 255,637      | 24.31     |

Associated Analyses

|                              |              |         |       |         |       |         |       |
|------------------------------|--------------|---------|-------|---------|-------|---------|-------|
| Method Blank                 | KWG1005659-5 | 233,584 | 16.69 | 198,229 | 21.11 | 158,955 | 24.29 |
| Lab Control Sample           | KWG1005659-3 | 226,308 | 16.70 | 231,145 | 21.12 | 195,621 | 24.30 |
| Duplicate Lab Control Sample | KWG1005659-4 | 242,964 | 16.69 | 239,385 | 21.12 | 200,450 | 24.30 |
| Batch QCMS                   | KWG1005659-1 | 221,940 | 16.70 | 245,359 | 21.11 | 200,032 | 24.30 |
| Batch QCDMS                  | KWG1005659-2 | 217,711 | 16.69 | 252,445 | 21.11 | 199,314 | 24.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 22:59

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F013.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005687-2  
 Analysis Lot: KWG1005687

|                 | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |       | Acenaphthene-d10 |       |
|-----------------|------------------------|------|----------------|-------|------------------|-------|
|                 | Area                   | RT   | Area           | RT    | Area             | RT    |
| Results ==>     | 142,104                | 9.33 | 539,393        | 11.44 | 286,996          | 14.29 |
| Upper Limit ==> | 284,208                | 9.83 | 1,078,786      | 11.94 | 573,992          | 14.79 |
| Lower Limit ==> | 71,052                 | 8.83 | 269,697        | 10.94 | 143,498          | 13.79 |
| ICAL Result ==> | 103,733                | 9.34 | 407,774        | 11.45 | 224,107          | 14.30 |

Associated Analyses

|          |              |        |      |         |       |         |       |
|----------|--------------|--------|------|---------|-------|---------|-------|
| Batch QC | K1005175-012 | 82,676 | 9.33 | 292,699 | 11.43 | 168,356 | 14.29 |
| D-4-16   | K1005244-003 | 80,671 | 9.33 | 293,139 | 11.42 | 166,893 | 14.28 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 22:59

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F013.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005687-2  
 Analysis Lot: KWG1005687

|                 | Phenanthrene-d10 |       | Chrysene-d12 |       | Perylene-d12 |       |
|-----------------|------------------|-------|--------------|-------|--------------|-------|
|                 | Area             | RT    | Area         | RT    | Area         | RT    |
| Results ==>     | 353,872          | 16.70 | 408,000      | 21.13 | 306,648      | 24.31 |
| Upper Limit ==> | 707,744          | 17.20 | 816,000      | 21.63 | 613,296      | 24.81 |
| Lower Limit ==> | 176,936          | 16.20 | 204,000      | 20.63 | 153,324      | 23.81 |
| ICAL Result ==> | 285,196          | 16.70 | 279,166      | 21.13 | 255,637      | 24.31 |

Associated Analyses

|          |              |         |       |         |       |         |       |
|----------|--------------|---------|-------|---------|-------|---------|-------|
| Batch QC | K1005175-012 | 245,334 | 16.69 | 218,908 | 21.11 | 176,848 | 24.30 |
| D-4-16   | K1005244-003 | 224,585 | 16.69 | 208,104 | 21.10 | 171,637 | 24.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Sediment

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010

**Matrix Spike/Duplicate Matrix Spike Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Batch QC  
**Lab Code:** K1005175-012  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low  
**Extraction Lot:** KWG1005659

| Analyte Name              | Sample Result | Batch QCMS<br>KWG1005659-1<br>Matrix Spike |          |      | Batch QCDMS<br>KWG1005659-2<br>Duplicate Matrix Spike |          |      | %Rec Limits | RPD | RPD Limit |
|---------------------------|---------------|--|----------|------|---|----------|------|-------------|-----|-----------|
|                           |               | Result                                     | Expected | %Rec | Result  | Expected | %Rec |             |     |           |
| Phenol                    | ND            | 1.85                                       | 2.88     | 64   | 1.85  | 2.88     | 64   | 18-106      | 0   | 40        |
| 2-Chlorophenol            | ND            | 1.87                                       | 2.88     | 65   | 1.78  | 2.88     | 62   | 27-96       | 5   | 40        |
| 1,4-Dichlorobenzene       | ND            | 1.91                                       | 2.88     | 66   | 1.73  | 2.88     | 60   | 28-95       | 10  | 40        |
| N-Nitrosodi-n-propylamine | ND            | 1.92                                       | 2.88     | 66   | 1.89  | 2.88     | 65   | 32-107      | 2   | 40        |
| 1,2,4-Trichlorobenzene    | ND            | 1.98                                       | 2.88     | 69   | 1.93  | 2.88     | 67   | 28-105      | 3   | 40        |
| 4-Chloro-3-methylphenol   | ND            | 2.09                                       | 2.88     | 72   | 1.90  | 2.88     | 66   | 13-122      | 9   | 40        |
| Acenaphthene              | ND            | 2.19                                       | 2.88     | 76   | 1.97  | 2.88     | 68   | 30-113      | 11  | 40        |
| 4-Nitrophenol             | ND            | 2.19                                       | 2.88     | 76   | 1.89  | 2.88     | 66   | 12-141      | 14  | 40        |
| 2,4-Dinitrotoluene        | ND            | 2.24                                       | 2.88     | 78   | 1.85  | 2.88     | 64   | 36-127      | 19  | 40        |
| Pentachlorophenol         | ND            | 1.85                                       | 2.88     | 64   | 1.75  | 2.88     | 61   | 10-135      | 6   | 40        |
| Pyrene                    | ND            | 1.94                                       | 2.88     | 67   | 1.98  | 2.88     | 69   | 24-126      | 2   | 40        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Extracted: 06/01/2010  
 Date Analyzed: 06/10/2010

Lab Control Spike/Duplicate Lab Control Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low  
 Extraction Lot: KWG1005659

| Analyte Name                 | Lab Control Sample<br>KWG1005659-3<br>Lab Control Spike |          |      | Duplicate Lab Control Sample<br>KWG1005659-4<br>Duplicate Lab Control Spike |          |      | %Rec<br>Limits | RPD | RPD<br>Limit |
|------------------------------|---|----------|------|---|----------|------|----------------|-----|--------------|
|                              | Result  | Expected | %Rec | Result  | Expected | %Rec |                |     |              |
| N-Nitrosodimethylamine       | 2.14  | 3.33     | 64   | 2.41  | 3.33     | 72   | 34-93          | 12  | 40           |
| Aniline                      | 2.43  | 3.33     | 73   | 2.55  | 3.33     | 76   | 24-92          | 5   | 40           |
| Bis(2-chloroethyl) Ether     | 2.35  | 3.33     | 70   | 2.52  | 3.33     | 76   | 42-88          | 7   | 40           |
| Phenol                       | 2.25  | 3.33     | 68   | 2.39  | 3.33     | 72   | 40-87          | 6   | 40           |
| 2-Chlorophenol               | 2.30  | 3.33     | 69   | 2.38  | 3.33     | 71   | 42-86          | 4   | 40           |
| 1,3-Dichlorobenzene          | 2.35  | 3.33     | 70   | 2.37  | 3.33     | 71   | 41-84          | 1   | 40           |
| 1,4-Dichlorobenzene          | 2.40  | 3.33     | 72   | 2.38  | 3.33     | 71   | 41-85          | 1   | 40           |
| 1,2-Dichlorobenzene          | 2.42  | 3.33     | 73   | 2.40  | 3.33     | 72   | 41-86          | 1   | 40           |
| Benzyl Alcohol               | 2.52  | 3.33     | 76   | 2.49  | 3.33     | 75   | 35-96          | 1   | 40           |
| Bis(2-chloroisopropyl) Ether | 2.08  | 3.33     | 62   | 2.24  | 3.33     | 67   | 39-94          | 7   | 40           |
| 2-Methylphenol               | 2.33  | 3.33     | 70   | 2.46  | 3.33     | 74   | 35-92          | 5   | 40           |
| Hexachloroethane             | 2.22  | 3.33     | 67   | 2.29  | 3.33     | 69   | 40-87          | 3   | 40           |
| N-Nitrosodi-n-propylamine    | 2.47  | 3.33     | 74   | 2.63  | 3.33     | 79   | 41-96          | 6   | 40           |
| 4-Methylphenol               | 2.56  | 3.33     | 77   | 2.59  | 3.33     | 78   | 38-94          | 1   | 40           |
| Nitrobenzene                 | 2.47  | 3.33     | 74   | 2.45  | 3.33     | 73   | 44-92          | 1   | 40           |
| Isophorone                   | 2.63  | 3.33     | 79   | 2.49  | 3.33     | 75   | 42-93          | 6   | 40           |
| 2-Nitrophenol                | 2.75  | 3.33     | 82   | 2.48  | 3.33     | 74   | 44-95          | 10  | 40           |
| 2,4-Dimethylphenol           | 2.34  | 3.33     | 70   | 2.02  | 3.33     | 61   | 16-89          | 15  | 40           |
| Bis(2-chloroethoxy)methane   | 2.59  | 3.33     | 78   | 2.40  | 3.33     | 72   | 45-93          | 8   | 40           |
| 2,4-Dichlorophenol           | 2.66  | 3.33     | 80   | 2.52  | 3.33     | 76   | 43-94          | 6   | 40           |
| Benzoic Acid                 | 1.95  | 3.33     | 59   | 1.52  | 3.33     | 46   | 10-104         | 25  | 40           |
| 1,2,4-Trichlorobenzene       | 2.68  | 3.33     | 80   | 2.66  | 3.33     | 80   | 42-91          | 1   | 40           |
| Naphthalene                  | 2.68  | 3.33     | 80   | 2.62  | 3.33     | 79   | 44-92          | 2   | 40           |
| 4-Chloroaniline              | 2.65  | 3.33     | 79   | 2.71  | 3.33     | 81   | 37-96          | 2   | 40           |
| Hexachlorobutadiene          | 2.64  | 3.33     | 79   | 2.48  | 3.33     | 75   | 42-91          | 6   | 40           |
| 4-Chloro-3-methylphenol      | 3.03  | 3.33     | 91   | 2.61  | 3.33     | 78   | 44-101         | 15  | 40           |
| 2-Methylnaphthalene          | 2.76  | 3.33     | 83   | 2.75  | 3.33     | 82   | 44-95          | 0   | 40           |
| Hexachlorocyclopentadiene    | 1.14  | 3.33     | 34   | 1.12  | 3.33     | 34   | 10-68          | 2   | 40           |
| 2,4,6-Trichlorophenol        | 2.74  | 3.33     | 82   | 2.71  | 3.33     | 81   | 46-101         | 1   | 40           |
| 2,4,5-Trichlorophenol        | 2.87  | 3.33     | 86   | 2.63  | 3.33     | 79   | 46-103         | 9   | 40           |
| 2-Chloronaphthalene          | 2.71  | 3.33     | 81   | 2.61  | 3.33     | 78   | 44-95          | 4   | 40           |
| 2-Nitroaniline               | 2.66  | 3.33     | 80   | 2.64  | 3.33     | 79   | 48-108         | 1   | 40           |
| Acenaphthylene               | 3.02  | 3.33     | 91   | 2.74  | 3.33     | 82   | 46-99          | 10  | 40           |
| Dimethyl Phthalate           | 3.21  | 3.33     | 96   | 2.83  | 3.33     | 85   | 48-113         | 13  | 40           |
| 2,6-Dinitrotoluene           | 2.96  | 3.33     | 89   | 2.72  | 3.33     | 81   | 49-114         | 9   | 40           |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low  
**Extraction Lot:** KWG1005659

| Analyte Name                | Lab Control Sample<br>KWG1005659-3<br>Lab Control Spike |          |      | Duplicate Lab Control Sample<br>KWG1005659-4<br>Duplicate Lab Control Spike |          |      | %Rec<br>Limits | RPD | RPD<br>Limit |
|-----------------------------|---|----------|------|---|----------|------|----------------|-----|--------------|
|                             | Result  | Expected | %Rec | Result  | Expected | %Rec |                |     |              |
| Acenaphthene                | 3.02  | 3.33     | 91   | 2.85  | 3.33     | 85   | 49-97          | 6   | 40           |
| 3-Nitroaniline              | 2.80  | 3.33     | 84   | 2.65  | 3.33     | 80   | 46-111         | 5   | 40           |
| 2,4-Dinitrophenol           | 2.32  | 3.33     | 70   | 1.94  | 3.33     | 58   | 28-116         | 18  | 40           |
| Dibenzofuran                | 2.97  | 3.33     | 89   | 2.51  | 3.33     | 75   | 47-101         | 17  | 40           |
| 4-Nitrophenol               | 2.93  | 3.33     | 88   | 2.54  | 3.33     | 76   | 41-121         | 14  | 40           |
| 2,4-Dinitrotoluene          | 2.99  | 3.33     | 90   | 2.77  | 3.33     | 83   | 48-119         | 7   | 40           |
| Fluorene                    | 3.06  | 3.33     | 92   | 2.94  | 3.33     | 88   | 46-103         | 4   | 40           |
| 4-Chlorophenyl Phenyl Ether | 2.84  | 3.33     | 85   | 2.85  | 3.33     | 85   | 46-105         | 0   | 40           |
| Diethyl Phthalate           | 3.26  | 3.33     | 98   | 2.91  | 3.33     | 87   | 45-121         | 11  | 40           |
| 4-Nitroaniline              | 3.06  | 3.33     | 92   | 2.73  | 3.33     | 82   | 39-120         | 11  | 40           |
| 2-Methyl-4,6-dinitrophenol  | 2.87  | 3.33     | 86   | 2.49  | 3.33     | 75   | 41-119         | 14  | 40           |
| N-Nitrosodiphenylamine      | 3.05  | 3.33     | 91   | 2.68  | 3.33     | 80   | 44-113         | 13  | 40           |
| 4-Bromophenyl Phenyl Ether  | 3.36  | 3.33     | 101  | 2.90  | 3.33     | 87   | 49-110         | 15  | 40           |
| Hexachlorobenzene           | 3.38  | 3.33     | 101  | 2.94  | 3.33     | 88   | 50-109         | 14  | 40           |
| Pentachlorophenol           | 2.80  | 3.33     | 84   | 2.31  | 3.33     | 69   | 39-112         | 19  | 40           |
| Phenanthrene                | 3.16  | 3.33     | 95   | 2.96  | 3.33     | 89   | 52-108         | 6   | 40           |
| Anthracene                  | 3.15  | 3.33     | 95   | 2.60  | 3.33     | 78   | 50-108         | 19  | 40           |
| Di-n-butyl Phthalate        | 3.27  | 3.33     | 98   | 2.97  | 3.33     | 89   | 50-124         | 10  | 40           |
| Fluoranthene                | 3.27  | 3.33     | 98   | 2.91  | 3.33     | 87   | 48-116         | 12  | 40           |
| Pyrene                      | 2.93  | 3.33     | 88   | 2.78  | 3.33     | 83   | 45-116         | 5   | 40           |
| Butyl Benzyl Phthalate      | 2.92  | 3.33     | 88   | 2.64  | 3.33     | 79   | 51-114         | 10  | 40           |
| 3,3'-Dichlorobenzidine      | 3.08  | 3.33     | 92   | 2.62  | 3.33     | 78   | 38-116         | 16  | 40           |
| Benz(a)anthracene           | 3.39  | 3.33     | 102  | 2.92  | 3.33     | 88   | 54-109         | 15  | 40           |
| Chrysene                    | 3.29  | 3.33     | 99   | 2.97  | 3.33     | 89   | 53-109         | 10  | 40           |
| Bis(2-ethylhexyl) Phthalate | 3.14  | 3.33     | 94   | 2.85  | 3.33     | 86   | 51-115         | 10  | 40           |
| Di-n-octyl Phthalate        | 3.18  | 3.33     | 95   | 2.77  | 3.33     | 83   | 51-121         | 14  | 40           |
| Benzo(b)fluoranthene        | 3.35  | 3.33     | 101  | 2.94  | 3.33     | 88   | 53-110         | 13  | 40           |
| Benzo(k)fluoranthene        | 3.37  | 3.33     | 101  | 2.99  | 3.33     | 90   | 52-112         | 12  | 40           |
| Benzo(a)pyrene              | 3.53  | 3.33     | 106  | 3.23  | 3.33     | 97   | 51-114         | 9   | 40           |
| Indeno(1,2,3-cd)pyrene      | 3.15  | 3.33     | 95   | 2.84  | 3.33     | 85   | 53-112         | 10  | 40           |
| Dibenz(a,h)anthracene       | 3.22  | 3.33     | 97   | 2.76  | 3.33     | 83   | 53-114         | 15  | 40           |
| Benzo(g,h,i)perylene        | 3.22  | 3.33     | 97   | 2.69  | 3.33     | 81   | 50-110         | 18  | 40           |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601  
Sample Matrix: Misc. solid

Service Request: K1005244  
Date Extracted: 06/01/2010  
Date Analyzed: 06/10/2010  
Time Analyzed: 18:58

Method Blank Summary  
Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
Lab Code: KWG1005659-5  
Extraction Method: EPA 3541  
Analysis Method: 8270C  
File ID: J:\MS07\DATA\061010\0610F007.D  
Instrument ID: MS07  
Level: Low  
Extraction Lot: KWG1005659

This Method Blank applies to the following analyses:

| Sample Name                  | Lab Code     | File ID                        | Date Analyzed | Time Analyzed |
|------------------------------|--------------|--------------------------------|---------------|---------------|
| Lab Control Sample           | KWG1005659-3 | J:\MS07\DATA\061010\0610F008.D | 06/10/10      | 19:38         |
| Duplicate Lab Control Sample | KWG1005659-4 | J:\MS07\DATA\061010\0610F009.D | 06/10/10      | 20:18         |
| Batch QCMS                   | KWG1005659-1 | J:\MS07\DATA\061010\0610F010.D | 06/10/10      | 20:58         |
| Batch QCDMS                  | KWG1005659-2 | J:\MS07\DATA\061010\0610F011.D | 06/10/10      | 21:38         |
| Batch QC                     | K1005175-012 | J:\MS07\DATA\061010\0610F015.D | 06/11/10      | 00:19         |
| D-4-16                       | K1005244-003 | J:\MS07\DATA\061010\0610F016.D | 06/11/10      | 01:00         |



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 19:38

**Lab Control Sample Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** KWG1005659-3  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**File ID:** J:\MS07\DATA\061010\0610F008.D  
**Instrument ID:** MS07  
**Level:** Low  
**Extraction Lot:** KWG1005659

This Lab Control Sample applies to the following analyses:

| <b>Sample Name</b> | <b>Lab Code</b> | <b>File ID</b>                 | <b>Date Analyzed</b> | <b>Time Analyzed</b> |
|--------------------|-----------------|--------------------------------|----------------------|----------------------|
| Method Blank       | KWG1005659-5    | J:\MS07\DATA\061010\0610F007.D | 06/10/10             | 18:58                |
| Batch QCMS         | KWG1005659-1    | J:\MS07\DATA\061010\0610F010.D | 06/10/10             | 20:58                |
| Batch QCDMS        | KWG1005659-2    | J:\MS07\DATA\061010\0610F011.D | 06/10/10             | 21:38                |
| Batch QC           | K1005175-012    | J:\MS07\DATA\061010\0610F015.D | 06/11/10             | 00:19                |
| D-4-16             | K1005244-003    | J:\MS07\DATA\061010\0610F016.D | 06/11/10             | 01:00                |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 14:51

**Tune Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**File ID:** J:\MS07\DATA\061010\0610F001.D  
**Instrument ID:** MS07  
**Column:**

**Analysis Method:** 8270C  
**Analysis Lot:** KWG1005663

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 50.5                 | 24239         | PASS             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 69          | 198              | 0            | 100          | 59.4                 | 28517         | PASS             |
| 70          | 69               | 0            | 2            | 0.2                  | 47            | PASS             |
| 127         | 198              | 25           | 75           | 51.1                 | 24529         | PASS             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | PASS             |
| 198         | 198              | 100          | 100          | 100.0                | 48018         | PASS             |
| 199         | 198              | 5            | 9            | 6.7                  | 3236          | PASS             |
| 275         | 198              | 10           | 30           | 22.2                 | 10668         | PASS             |
| 365         | 198              | 1            | 100          | 3.0                  | 1439          | PASS             |
| 441         | 443              | 0            | 100          | 78.5                 | 3934          | PASS             |
| 442         | 198              | 40           | 110          | 55.2                 | 26486         | PASS             |
| 443         | 442              | 15           | 24           | 18.9                 | 5012          | PASS             |

| Sample Name                         | Lab Code     | File ID                        | Date Analyzed | Time Analyzed | Q |
|-------------------------------------|--------------|--------------------------------|---------------|---------------|---|
| Continuing Calibration Verification | KWG1005663-2 | J:\MS07\DATA\061010\0610F002.D | 06/10/2010    | 15:32         |   |
| Method Blank                        | KWG1005659-5 | J:\MS07\DATA\061010\0610F007.D | 06/10/2010    | 18:58         |   |
| Lab Control Sample                  | KWG1005659-3 | J:\MS07\DATA\061010\0610F008.D | 06/10/2010    | 19:38         |   |
| Duplicate Lab Control Sample        | KWG1005659-4 | J:\MS07\DATA\061010\0610F009.D | 06/10/2010    | 20:18         |   |
| Batch QCMS                          | KWG1005659-1 | J:\MS07\DATA\061010\0610F010.D | 06/10/2010    | 20:58         |   |
| Batch QCDMS                         | KWG1005659-2 | J:\MS07\DATA\061010\0610F011.D | 06/10/2010    | 21:38         |   |

Results flagged with an asterisk (\*) indicate the analysis performed outside specified tune window

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 22:19

**Tune Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**File ID:** J:\MS07\DATA\061010\0610F012.D  
**Instrument ID:** MS07  
**Column:**

**Analysis Method:** 8270C  
**Analysis Lot:** KWG1005687

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 48.7                 | 28256         | PASS             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 69          | 198              | 0            | 100          | 58.7                 | 34033         | PASS             |
| 70          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 127         | 198              | 25           | 75           | 49.0                 | 28411         | PASS             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | PASS             |
| 198         | 198              | 100          | 100          | 100.0                | 58006         | PASS             |
| 199         | 198              | 5            | 9            | 6.7                  | 3890          | PASS             |
| 275         | 198              | 10           | 30           | 20.5                 | 11918         | PASS             |
| 365         | 198              | 1            | 100          | 2.7                  | 1563          | PASS             |
| 441         | 443              | 0            | 100          | 75.9                 | 4319          | PASS             |
| 442         | 198              | 40           | 110          | 49.9                 | 28935         | PASS             |
| 443         | 442              | 15           | 24           | 19.7                 | 5688          | PASS             |

| Sample Name                         | Lab Code     | File ID                        | Date Analyzed | Time Analyzed | Q |
|-------------------------------------|--------------|--------------------------------|---------------|---------------|---|
| Continuing Calibration Verification | KWG1005687-2 | J:\MS07\DATA\061010\0610F013.D | 06/10/2010    | 22:59         |   |
| Batch QC                            | K1005175-012 | J:\MS07\DATA\061010\0610F015.D | 06/11/2010    | 00:19         |   |
| D-4-16                              | K1005244-003 | J:\MS07\DATA\061010\0610F016.D | 06/11/2010    | 01:00         |   |

Results flagged with an asterisk (\*) indicate the analysis performed outside specified tune window



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

|          |                                |          |                                |
|----------|--------------------------------|----------|--------------------------------|
| Level ID | File ID                        | Level ID | File ID                        |
| A        | J:\MS07\DATA\060210\0602F004.D | F        | J:\MS07\DATA\060210\0602F009.D |
| B        | J:\MS07\DATA\060210\0602F005.D | G        | J:\MS07\DATA\060210\0602F010.D |
| C        | J:\MS07\DATA\060210\0602F006.D | H        | J:\MS07\DATA\060210\0602F011.D |
| D        | J:\MS07\DATA\060210\0602F007.D | I        | J:\MS07\DATA\060210\0602F012.D |
| E        | J:\MS07\DATA\060210\0602F008.D |          |                                |

| Analyte Name                 | Level |     |       | Level |     |       | Level |     |       | Level |     |       | Level |     |       |
|------------------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|
|                              | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |
| N-Nitrosodimethylamine       | A     | 5.0 | 0.876 | B     | 10  | 0.953 | C     | 20  | 0.933 | D     | 50  | 0.861 | E     | 80  | 0.952 |
|                              | F     | 100 | 1.02  | G     | 120 | 0.995 | H     | 160 | 1.02  | I     | 200 | 0.996 |       |     |       |
| Aniline                      | A     | 5.0 | 1.51  | B     | 10  | 1.55  | C     | 20  | 1.58  | D     | 50  | 1.23  | E     | 80  | 1.50  |
|                              | F     | 100 | 1.55  | G     | 120 | 1.50  | H     | 160 | 1.56  | I     | 200 | 1.51  |       |     |       |
| Bis(2-chloroethyl) Ether     | A     | 5.0 | 1.03  | B     | 10  | 1.14  | C     | 20  | 1.20  | D     | 50  | 1.05  | E     | 80  | 1.24  |
|                              | F     | 100 | 1.29  | G     | 120 | 1.32  | H     | 160 | 1.33  | I     | 200 | 1.29  |       |     |       |
| † Phenol                     |       |     |       | B     | 10  | 1.36  | C     | 20  | 1.44  | D     | 50  | 1.31  | E     | 80  | 1.54  |
|                              | ‡     | F   | 100   | 1.63  | G   | 120   | 1.63  | H   | 160   | 1.62  | I   | 200   | 1.62  |     |       |
| 2-Chlorophenol               | A     | 5.0 | 1.16  | B     | 10  | 1.25  | C     | 20  | 1.33  | D     | 50  | 1.15  | E     | 80  | 1.34  |
|                              | F     | 100 | 1.43  | G     | 120 | 1.36  | H     | 160 | 1.39  | I     | 200 | 1.36  |       |     |       |
| 1,3-Dichlorobenzene          | A     | 5.0 | 1.33  | B     | 10  | 1.39  | C     | 20  | 1.45  | D     | 50  | 1.31  | E     | 80  | 1.39  |
|                              | F     | 100 | 1.43  | G     | 120 | 1.43  | H     | 160 | 1.39  | I     | 200 | 1.36  |       |     |       |
| † 1,4-Dichlorobenzene        | A     | 5.0 | 1.37  | B     | 10  | 1.45  | C     | 20  | 1.46  | D     | 50  | 1.28  | E     | 80  | 1.48  |
|                              | ‡     | F   | 100   | 1.44  | G   | 120   | 1.45  | H   | 160   | 1.44  | I   | 200   | 1.36  |     |       |
| 1,2-Dichlorobenzene          | A     | 5.0 | 1.28  | B     | 10  | 1.31  | C     | 20  | 1.36  | D     | 50  | 1.24  | E     | 80  | 1.41  |
|                              | F     | 100 | 1.36  | G     | 120 | 1.40  | H     | 160 | 1.33  | I     | 200 | 1.36  |       |     |       |
| Benzyl Alcohol               |       |     |       | B     | 10  | 0.704 | C     | 20  | 0.752 | D     | 50  | 0.686 | E     | 80  | 0.838 |
|                              | F     | 100 | 0.843 | G     | 120 | 0.894 | H     | 160 | 0.879 | I     | 200 | 0.839 |       |     |       |
| Bis(2-chloroisopropyl) Ether |       |     |       | B     | 10  | 1.81  | C     | 20  | 1.82  | D     | 50  | 1.63  | E     | 80  | 2.01  |
|                              | F     | 100 | 2.16  | G     | 120 | 2.18  | H     | 160 | 2.25  | I     | 200 | 2.20  |       |     |       |
| 2-Methylphenol               | A     | 5.0 | 0.981 | B     | 10  | 0.983 | C     | 20  | 0.985 | D     | 50  | 0.838 | E     | 80  | 1.04  |
|                              | F     | 100 | 1.02  | G     | 120 | 0.997 | H     | 160 | 1.05  | I     | 200 | 0.964 |       |     |       |
| Hexachloroethane             | A     | 5.0 | 0.579 | B     | 10  | 0.644 | C     | 20  | 0.660 | D     | 50  | 0.598 | E     | 80  | 0.692 |
|                              | F     | 100 | 0.699 | G     | 120 | 0.678 | H     | 160 | 0.653 | I     | 200 | 0.590 |       |     |       |
| † N-Nitrosodi-n-propylamine  | A     | 5.0 | 0.866 | B     | 10  | 0.899 | C     | 20  | 0.946 | D     | 50  | 0.757 | E     | 80  | 1.06  |
|                              | ‡     | F   | 100   | 1.09  | G   | 120   | 1.11  | H   | 160   | 1.11  | I   | 200   | 1.02  |     |       |
| 4-Methylphenol               | A     | 5.0 | 1.37  | B     | 10  | 1.36  | C     | 20  | 1.44  | D     | 50  | 1.33  | E     | 80  | 1.63  |
|                              | F     | 100 | 1.63  | G     | 120 | 1.67  | H     | 160 | 1.56  | I     | 200 | 1.45  |       |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010

Initial Calibration Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
Instrument ID: MS07

Column: MS

| Analyte Name                | Level |     |       | Level |     |       | Level |     |       | Level |     |       | Level |     |       |
|-----------------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|
|                             | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |
| Nitrobenzene                |       |     |       | B     | 10  | 1.24  | C     | 20  | 1.31  | D     | 50  | 1.21  | E     | 80  | 1.40  |
|                             | F     | 100 | 1.46  | G     | 120 | 1.46  | H     | 160 | 1.50  | I     | 200 | 1.33  |       |     |       |
| Isophorone                  | A     | 5.0 | 0.711 | B     | 10  | 0.701 | C     | 20  | 0.765 | D     | 50  | 0.630 | E     | 80  | 0.760 |
|                             | F     | 100 | 0.681 | G     | 120 | 0.768 | H     | 160 | 0.731 | I     | 200 | 0.747 |       |     |       |
| ‡ 2-Nitrophenol             | A     | 5.0 | 0.182 | B     | 10  | 0.183 | C     | 20  | 0.204 | D     | 50  | 0.173 | E     | 80  | 0.206 |
|                             | F     | 100 | 0.190 | G     | 120 | 0.218 | H     | 160 | 0.217 | I     | 200 | 0.217 |       |     |       |
| 2,4-Dimethylphenol          | A     | 5.0 | 0.264 | B     | 10  | 0.234 | C     | 20  | 0.266 | D     | 50  | 0.245 | E     | 80  | 0.281 |
|                             | F     | 100 | 0.271 | G     | 120 | 0.282 | H     | 160 | 0.273 | I     | 200 | 0.277 |       |     |       |
| Bis(2-chloroethoxy)methane  | A     | 5.0 | 0.391 | B     | 10  | 0.393 | C     | 20  | 0.425 | D     | 50  | 0.375 | E     | 80  | 0.412 |
|                             | F     | 100 | 0.410 | G     | 120 | 0.426 | H     | 160 | 0.395 | I     | 200 | 0.421 |       |     |       |
| ‡ 2,4-Dichlorophenol        | A     | 5.0 | 0.273 | B     | 10  | 0.290 | C     | 20  | 0.315 | D     | 50  | 0.286 | E     | 80  | 0.303 |
|                             | F     | 100 | 0.294 | G     | 120 | 0.341 | H     | 160 | 0.310 | I     | 200 | 0.303 |       |     |       |
| Benzoic Acid                |       |     |       |       |     |       | C     | 20  | 0.196 | D     | 50  | 0.203 | E     | 80  | 0.235 |
|                             | F     | 100 | 0.222 | G     | 120 | 0.256 | H     | 160 | 0.241 | I     | 200 | 0.241 |       |     |       |
| 1,2,4-Trichlorobenzene      | A     | 5.0 | 0.318 | B     | 10  | 0.326 | C     | 20  | 0.339 | D     | 50  | 0.300 | E     | 80  | 0.335 |
|                             | F     | 100 | 0.318 | G     | 120 | 0.332 | H     | 160 | 0.311 | I     | 200 | 0.304 |       |     |       |
| Naphthalene                 | A     | 5.0 | 0.986 | B     | 10  | 1.00  | C     | 20  | 1.01  | D     | 50  | 0.889 | E     | 80  | 0.980 |
|                             | F     | 100 | 0.935 | G     | 120 | 1.01  | H     | 160 | 0.940 | I     | 200 | 0.884 |       |     |       |
| 4-Chloroaniline             | A     | 5.0 | 0.433 | B     | 10  | 0.434 | C     | 20  | 0.462 | D     | 50  | 0.407 | E     | 80  | 0.421 |
|                             | F     | 100 | 0.409 | G     | 120 | 0.426 | H     | 160 | 0.405 | I     | 200 | 0.414 |       |     |       |
| ‡ Hexachlorobutadiene       | A     | 5.0 | 0.202 | B     | 10  | 0.201 | C     | 20  | 0.218 | D     | 50  | 0.191 | E     | 80  | 0.218 |
|                             | F     | 100 | 0.211 | G     | 120 | 0.206 | H     | 160 | 0.191 | I     | 200 | 0.190 |       |     |       |
| ‡ 4-Chloro-3-methylphenol   | A     | 5.0 | 0.319 | B     | 10  | 0.318 | C     | 20  | 0.322 | D     | 50  | 0.310 | E     | 80  | 0.345 |
|                             | F     | 100 | 0.299 | G     | 120 | 0.334 | H     | 160 | 0.293 | I     | 200 | 0.294 |       |     |       |
| 2-Methylnaphthalene         | A     | 5.0 | 0.626 | B     | 10  | 0.628 | C     | 20  | 0.658 | D     | 50  | 0.582 | E     | 80  | 0.639 |
|                             | F     | 100 | 0.585 | G     | 120 | 0.646 | H     | 160 | 0.592 | I     | 200 | 0.540 |       |     |       |
| † Hexachlorocyclopentadiene |       |     |       | B     | 10  | 0.211 | C     | 20  | 0.297 | D     | 50  | 0.327 | E     | 80  | 0.387 |
|                             | F     | 100 | 0.465 | G     | 120 | 0.436 | H     | 160 | 0.424 | I     | 200 | 0.438 |       |     |       |
| ‡ 2,4,6-Trichlorophenol     | A     | 5.0 | 0.373 | B     | 10  | 0.389 | C     | 20  | 0.417 | D     | 50  | 0.388 | E     | 80  | 0.413 |
|                             | F     | 100 | 0.449 | G     | 120 | 0.429 | H     | 160 | 0.427 | I     | 200 | 0.427 |       |     |       |
| 2,4,5-Trichlorophenol       | A     | 5.0 | 0.418 | B     | 10  | 0.427 | C     | 20  | 0.439 | D     | 50  | 0.438 | E     | 80  | 0.449 |
|                             | F     | 100 | 0.503 | G     | 120 | 0.494 | H     | 160 | 0.479 | I     | 200 | 0.490 |       |     |       |
| 2-Chloronaphthalene         | A     | 5.0 | 1.13  | B     | 10  | 1.08  | C     | 20  | 1.10  | D     | 50  | 1.11  | E     | 80  | 1.18  |
|                             | F     | 100 | 1.25  | G     | 120 | 1.16  | H     | 160 | 1.20  | I     | 200 | 1.20  |       |     |       |
| 2-Nitroaniline              | A     | 5.0 | 0.332 | B     | 10  | 0.361 | C     | 20  | 0.388 | D     | 50  | 0.353 | E     | 80  | 0.389 |
|                             | F     | 100 | 0.365 | G     | 120 | 0.404 | H     | 160 | 0.401 | I     | 200 | 0.358 |       |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   |
|-----------------------------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|
| Acenaphthylene              | A        | 5.0 | 1.73  | B        | 10  | 1.76  | C        | 20  | 1.84  | D        | 50  | 1.67  | E        | 80  | 1.79  |
|                             | F        | 100 | 1.89  | G        | 120 | 1.81  | H        | 160 | 1.76  | I        | 200 | 1.78  |          |     |       |
| Dimethyl Phthalate          | A        | 5.0 | 1.49  | B        | 10  | 1.42  | C        | 20  | 1.48  | D        | 50  | 1.36  | E        | 80  | 1.34  |
|                             | F        | 100 | 1.31  | G        | 120 | 1.33  | H        | 160 | 1.28  | I        | 200 | 1.21  |          |     |       |
| 2,6-Dinitrotoluene          | A        | 5.0 | 0.316 | B        | 10  | 0.315 | C        | 20  | 0.320 | D        | 50  | 0.286 | E        | 80  | 0.319 |
|                             | F        | 100 | 0.311 | G        | 120 | 0.303 | H        | 160 | 0.299 | I        | 200 | 0.305 |          |     |       |
| * Acenaphthene              | A        | 5.0 | 1.10  | B        | 10  | 1.06  | C        | 20  | 1.04  | D        | 50  | 0.936 | E        | 80  | 1.01  |
|                             | F        | 100 | 1.02  | G        | 120 | 1.02  | H        | 160 | 0.990 | I        | 200 | 0.982 |          |     |       |
| 3-Nitroaniline              | A        | 5.0 | 0.312 | B        | 10  | 0.330 | C        | 20  | 0.341 | D        | 50  | 0.318 | E        | 80  | 0.340 |
|                             | F        | 100 | 0.314 | G        | 120 | 0.318 | H        | 160 | 0.317 | I        | 200 | 0.327 |          |     |       |
| † 2,4-Dinitrophenol         |          |     |       |          |     |       | C        | 20  | 0.126 | D        | 50  | 0.173 | E        | 80  | 0.191 |
|                             | F        | 100 | 0.189 | G        | 120 | 0.188 | H        | 160 | 0.196 | I        | 200 | 0.187 |          |     |       |
| Dibenzofuran                | A        | 5.0 | 1.62  | B        | 10  | 1.71  | C        | 20  | 1.71  | D        | 50  | 1.60  | E        | 80  | 1.66  |
|                             | F        | 100 | 1.58  | G        | 120 | 1.57  | H        | 160 | 1.55  | I        | 200 | 1.43  |          |     |       |
| † 4-Nitrophenol             |          |     |       |          |     |       | C        | 20  | 0.149 | D        | 50  | 0.168 | E        | 80  | 0.186 |
|                             | F        | 100 | 0.180 | G        | 120 | 0.179 | H        | 160 | 0.183 | I        | 200 | 0.184 |          |     |       |
| 2,4-Dinitrotoluene          | A        | 5.0 | 0.442 | B        | 10  | 0.421 | C        | 20  | 0.412 | D        | 50  | 0.379 | E        | 80  | 0.401 |
|                             | F        | 100 | 0.365 | G        | 120 | 0.362 | H        | 160 | 0.369 | I        | 200 | 0.364 |          |     |       |
| Fluorene                    | A        | 5.0 | 1.34  | B        | 10  | 1.29  | C        | 20  | 1.25  | D        | 50  | 1.20  | E        | 80  | 1.21  |
|                             | F        | 100 | 1.18  | G        | 120 | 1.12  | H        | 160 | 1.16  | I        | 200 | 1.07  |          |     |       |
| 4-Chlorophenyl Phenyl Ether | A        | 5.0 | 0.653 | B        | 10  | 0.664 | C        | 20  | 0.646 | D        | 50  | 0.591 | E        | 80  | 0.636 |
|                             | F        | 100 | 0.587 | G        | 120 | 0.605 | H        | 160 | 0.586 | I        | 200 | 0.568 |          |     |       |
| Diethyl Phthalate           |          |     |       | B        | 10  | 1.52  | C        | 20  | 1.50  | D        | 50  | 1.30  | E        | 80  | 1.41  |
|                             | F        | 100 | 1.23  | G        | 120 | 1.26  | H        | 160 | 1.15  | I        | 200 | 1.15  |          |     |       |
| 4-Nitroaniline              | A        | 5.0 | 0.264 | B        | 10  | 0.281 | C        | 20  | 0.278 | D        | 50  | 0.284 | E        | 80  | 0.287 |
|                             | F        | 100 | 0.278 | G        | 120 | 0.281 | H        | 160 | 0.284 | I        | 200 | 0.289 |          |     |       |
| 2-Methyl-4,6-dinitrophenol  |          |     |       |          |     |       | C        | 20  | 0.188 | D        | 50  | 0.221 | E        | 80  | 0.230 |
|                             | F        | 100 | 0.209 | G        | 120 | 0.215 | H        | 160 | 0.219 | I        | 200 | 0.205 |          |     |       |
| * N-Nitrosodiphenylamine    | A        | 5.0 | 0.904 | B        | 10  | 0.854 | C        | 20  | 0.852 | D        | 50  | 0.892 | E        | 80  | 0.789 |
|                             | F        | 100 | 0.752 | G        | 120 | 0.753 | H        | 160 | 0.728 | I        | 200 | 0.688 |          |     |       |
| 4-Bromophenyl Phenyl Ether  | A        | 5.0 | 0.213 | B        | 10  | 0.226 | C        | 20  | 0.243 | D        | 50  | 0.218 | E        | 80  | 0.267 |
|                             | F        | 100 | 0.257 | G        | 120 | 0.263 | H        | 160 | 0.250 | I        | 200 | 0.233 |          |     |       |
| Hexachlorobenzene           | A        | 5.0 | 0.269 | B        | 10  | 0.266 | C        | 20  | 0.277 | D        | 50  | 0.257 | E        | 80  | 0.306 |
|                             | F        | 100 | 0.297 | G        | 120 | 0.289 | H        | 160 | 0.281 | I        | 200 | 0.274 |          |     |       |
| * Pentachlorophenol         |          |     |       |          |     |       | C        | 20  | 0.125 | D        | 50  | 0.142 | E        | 80  | 0.171 |
|                             | F        | 100 | 0.158 | G        | 120 | 0.169 | H        | 160 | 0.166 | I        | 200 | 0.169 |          |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010

Initial Calibration Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
Instrument ID: MS07

Column: MS

| Analyte Name                | Level |     |       | Level |     |       | Level |     |       | Level |     |       |   |    |       |
|-----------------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|---|----|-------|
|                             | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |   |    |       |
| Phenanthrene                | A     | 5.0 | 1.15  | B     | 10  | 1.14  | C     | 20  | 1.09  | D     | 50  | 0.980 | E | 80 | 1.15  |
|                             | F     | 100 | 1.00  | G     | 120 | 1.04  | H     | 160 | 1.00  | I     | 200 | 1.01  |   |    |       |
| Anthracene                  | A     | 5.0 | 1.15  | B     | 10  | 1.12  | C     | 20  | 1.10  | D     | 50  | 1.04  | E | 80 | 1.21  |
|                             | F     | 100 | 1.15  | G     | 120 | 1.13  | H     | 160 | 1.10  | I     | 200 | 1.06  |   |    |       |
| Di-n-butyl Phthalate        | A     | 5.0 | 1.26  | B     | 10  | 1.09  | C     | 20  | 1.15  | D     | 50  | 1.16  | E | 80 | 1.33  |
|                             | F     | 100 | 1.28  | G     | 120 | 1.25  | H     | 160 | 1.19  | I     | 200 | 1.25  |   |    |       |
| ‡ Fluoranthene              | A     | 5.0 | 0.954 | B     | 10  | 0.890 | C     | 20  | 0.817 | D     | 50  | 0.817 | E | 80 | 0.968 |
|                             | F     | 100 | 1.04  | G     | 120 | 1.04  | H     | 160 | 1.04  | I     | 200 | 1.10  |   |    |       |
| Pyrene                      |       |     |       | B     | 10  | 1.28  | C     | 20  | 1.15  | D     | 50  | 1.08  | E | 80 | 1.03  |
|                             | F     | 100 | 0.965 | G     | 120 | 0.970 | H     | 160 | 0.958 | I     | 200 | 1.11  |   |    |       |
| Butyl Benzyl Phthalate      | A     | 5.0 | 0.581 | B     | 10  | 0.542 | C     | 20  | 0.606 | D     | 50  | 0.565 | E | 80 | 0.647 |
|                             | F     | 100 | 0.607 | G     | 120 | 0.626 | H     | 160 | 0.620 | I     | 200 | 0.680 |   |    |       |
| 3,3'-Dichlorobenzidine      | A     | 5.0 | 0.404 | B     | 10  | 0.399 | C     | 20  | 0.423 | D     | 50  | 0.427 | E | 80 | 0.465 |
|                             | F     | 100 | 0.430 | G     | 120 | 0.415 | H     | 160 | 0.398 | I     | 200 | 0.402 |   |    |       |
| Benz(a)anthracene           | A     | 5.0 | 0.973 | B     | 10  | 0.885 | C     | 20  | 0.921 | D     | 50  | 0.905 | E | 80 | 1.02  |
|                             | F     | 100 | 0.963 | G     | 120 | 0.923 | H     | 160 | 0.914 | I     | 200 | 0.952 |   |    |       |
| Chrysene                    | A     | 5.0 | 1.01  | B     | 10  | 0.878 | C     | 20  | 0.894 | D     | 50  | 0.882 | E | 80 | 0.958 |
|                             | F     | 100 | 0.911 | G     | 120 | 0.877 | H     | 160 | 0.866 | I     | 200 | 0.918 |   |    |       |
| Bis(2-ethylhexyl) Phthalate | A     | 5.0 | 0.827 | B     | 10  | 0.765 | C     | 20  | 0.860 | D     | 50  | 0.809 | E | 80 | 0.896 |
|                             | F     | 100 | 0.902 | G     | 120 | 0.924 | H     | 160 | 0.901 | I     | 200 | 0.908 |   |    |       |
| ‡ Di-n-octyl Phthalate      |       |     |       | B     | 10  | 1.37  | C     | 20  | 1.40  | D     | 50  | 1.58  | E | 80 | 1.81  |
|                             | F     | 100 | 1.99  | G     | 120 | 1.96  | H     | 160 | 2.00  | I     | 200 | 1.98  |   |    |       |
| Benzo(b)fluoranthene        |       |     |       | B     | 10  | 0.873 | C     | 20  | 0.966 | D     | 50  | 0.943 | E | 80 | 1.04  |
|                             | F     | 100 | 1.11  | G     | 120 | 1.04  | H     | 160 | 1.12  | I     | 200 | 1.15  |   |    |       |
| Benzo(k)fluoranthene        | A     | 5.0 | 0.941 | B     | 10  | 0.944 | C     | 20  | 1.03  | D     | 50  | 1.03  | E | 80 | 1.09  |
|                             | F     | 100 | 1.14  | G     | 120 | 1.18  | H     | 160 | 1.10  | I     | 200 | 1.17  |   |    |       |
| ‡ Benzo(a)pyrene            |       |     |       | B     | 10  | 0.799 | C     | 20  | 0.843 | D     | 50  | 0.788 | E | 80 | 0.871 |
|                             | F     | 100 | 0.874 | G     | 120 | 0.881 | H     | 160 | 0.899 | I     | 200 | 0.891 |   |    |       |
| Indeno(1,2,3-cd)pyrene      | A     | 5.0 | 0.706 | B     | 10  | 0.671 | C     | 20  | 0.684 | D     | 50  | 0.687 | E | 80 | 0.758 |
|                             | F     | 100 | 0.750 | G     | 120 | 0.785 | H     | 160 | 0.813 | I     | 200 | 0.816 |   |    |       |
| Dibenz(a,h)anthracene       | A     | 5.0 | 0.758 | B     | 10  | 0.689 | C     | 20  | 0.761 | D     | 50  | 0.713 | E | 80 | 0.812 |
|                             | F     | 100 | 0.819 | G     | 120 | 0.809 | H     | 160 | 0.859 | I     | 200 | 0.885 |   |    |       |
| Benzo(g,h,i)perylene        | A     | 5.0 | 0.819 | B     | 10  | 0.799 | C     | 20  | 0.777 | D     | 50  | 0.744 | E | 80 | 0.778 |
|                             | F     | 100 | 0.772 | G     | 120 | 0.832 | H     | 160 | 0.809 | I     | 200 | 0.870 |   |    |       |
| 2-Fluorophenol              | A     | 5.0 | 0.897 | B     | 10  | 1.01  | C     | 20  | 1.02  | D     | 50  | 1.07  | E | 80 | 1.08  |
|                             | F     | 100 | 1.15  | G     | 120 | 1.12  | H     | 160 | 1.12  | I     | 200 | 1.11  |   |    |       |

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† SPCC Compound

‡ CCC Compound

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QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Calibration Date:** 06/02/2010

**Initial Calibration Summary  
Semi-Volatile Organic Compounds by GC/MS**

**Calibration ID:** CAL9525  
**Instrument ID:** MS07

**Column:** MS

| Analyte Name         | Level |     |       | Level |     |       | Level |     |       | Level |     |       | Level |     |       |
|----------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|
|                      | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |
| Phenol-d6            | A     | 5.0 | 1.24  | B     | 10  | 1.40  | C     | 20  | 1.40  | D     | 50  | 1.43  | E     | 80  | 1.52  |
|                      | F     | 100 | 1.60  | G     | 120 | 1.60  | H     | 160 | 1.61  | I     | 200 | 1.55  |       |     |       |
| Nitrobenzene-d5      |       |     |       | B     | 10  | 1.27  | C     | 20  | 1.32  | D     | 50  | 1.34  | E     | 80  | 1.50  |
|                      | F     | 100 | 1.55  | G     | 120 | 1.53  | H     | 160 | 1.58  | I     | 200 | 1.50  |       |     |       |
| 2-Fluorobiphenyl     | A     | 5.0 | 1.21  | B     | 10  | 1.26  | C     | 20  | 1.26  | D     | 50  | 1.31  | E     | 80  | 1.24  |
|                      | F     | 100 | 1.47  | G     | 120 | 1.38  | H     | 160 | 1.35  | I     | 200 | 1.32  |       |     |       |
| 2,4,6-Tribromophenol |       |     |       | B     | 10  | 0.133 | C     | 20  | 0.155 | D     | 50  | 0.160 | E     | 80  | 0.180 |
|                      | F     | 100 | 0.173 | G     | 120 | 0.175 | H     | 160 | 0.161 | I     | 200 | 0.160 |       |     |       |
| Terphenyl-d14        |       |     |       | B     | 10  | 0.644 | C     | 20  | 0.659 | D     | 50  | 0.674 | E     | 80  | 0.595 |
|                      | F     | 100 | 0.564 | G     | 120 | 0.551 | H     | 160 | 0.587 | I     | 200 | 0.625 |       |     |       |

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 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                 | Compound Type | Calibration Evaluation |       |              |   |                  | RRF Evaluation |   |             |
|------------------------------|---------------|------------------------|-------|--------------|---|------------------|----------------|---|-------------|
|                              |               | Fit Type               | Eval. | Eval. Result | Q | Control Criteria | Average RRF    | Q | Minimum RRF |
| N-Nitrosodimethylamine       | TRG           | AverageRF              | % RSD | 6.0          |   | ≤ 15             | 0.956          |   | 0.01        |
| Aniline                      | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 1.50           |   | 0.01        |
| Bis(2-chloroethyl) Ether     | TRG           | AverageRF              | % RSD | 9.3          |   | ≤ 15             | 1.21           |   | 0.01        |
| ‡ Phenol                     | MS            | AverageRF              | % RSD | 8.7          |   | ≤ 15             | 1.52           |   | 0.01        |
| 2-Chlorophenol               | MS            | AverageRF              | % RSD | 7.6          |   | ≤ 15             | 1.31           |   | 0.01        |
| 1,3-Dichlorobenzene          | TRG           | AverageRF              | % RSD | 3.5          |   | ≤ 15             | 1.39           |   | 0.01        |
| ‡ 1,4-Dichlorobenzene        | MS            | AverageRF              | % RSD | 4.5          |   | ≤ 15             | 1.41           |   | 0.01        |
| 1,2-Dichlorobenzene          | TRG           | AverageRF              | % RSD | 4.1          |   | ≤ 15             | 1.34           |   | 0.01        |
| Benzyl Alcohol               | TRG           | AverageRF              | % RSD | 9.9          |   | ≤ 15             | 0.804          |   | 0.01        |
| Bis(2-chloroisopropyl) Ether | TRG           | AverageRF              | % RSD | 11.5         |   | ≤ 15             | 2.01           |   | 0.01        |
| 2-Methylphenol               | TRG           | AverageRF              | % RSD | 6.2          |   | ≤ 15             | 0.984          |   | 0.01        |
| Hexachloroethane             | TRG           | AverageRF              | % RSD | 7.0          |   | ≤ 15             | 0.644          |   | 0.01        |
| † N-Nitrosodi-n-propylamine  | MS            | AverageRF              | % RSD | 12.7         |   | ≤ 15             | 0.985          |   | 0.05        |
| 4-Methylphenol               | TRG           | AverageRF              | % RSD | 8.8          |   | ≤ 15             | 1.49           |   | 0.01        |
| Nitrobenzene                 | TRG           | AverageRF              | % RSD | 7.9          |   | ≤ 15             | 1.36           |   | 0.01        |
| Isophorone                   | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.722          |   | 0.01        |
| ‡ 2-Nitrophenol              | TRG           | AverageRF              | % RSD | 8.7          |   | ≤ 15             | 0.199          |   | 0.01        |
| 2,4-Dimethylphenol           | TRG           | AverageRF              | % RSD | 6.1          |   | ≤ 15             | 0.266          |   | 0.01        |
| Bis(2-chloroethoxy)methane   | TRG           | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.405          |   | 0.01        |
| ‡ 2,4-Dichlorophenol         | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 0.302          |   | 0.01        |
| Benzoic Acid                 | TRG           | AverageRF              | % RSD | 9.6          |   | ≤ 15             | 0.228          |   | 0.01        |
| 1,2,4-Trichlorobenzene       | MS            | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.320          |   | 0.01        |
| Naphthalene                  | TRG           | AverageRF              | % RSD | 5.2          |   | ≤ 15             | 0.960          |   | 0.01        |
| 4-Chloroaniline              | TRG           | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.423          |   | 0.01        |
| ‡ Hexachlorobutadiene        | TRG           | AverageRF              | % RSD | 5.5          |   | ≤ 15             | 0.203          |   | 0.01        |
| ‡ 4-Chloro-3-methylphenol    | MS            | AverageRF              | % RSD | 5.6          |   | ≤ 15             | 0.315          |   | 0.01        |
| 2-Methylnaphthalene          | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.611          |   | 0.01        |
| † Hexachlorocyclopentadiene  | TRG           | Quadratic              | COD   | 0.993        |   | ≥ 0.990          | 0.373          |   | 0.05        |
| ‡ 2,4,6-Trichlorophenol      | TRG           | AverageRF              | % RSD | 5.9          |   | ≤ 15             | 0.413          |   | 0.01        |
| 2,4,5-Trichlorophenol        | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 0.460          |   | 0.01        |
| 2-Chloronaphthalene          | TRG           | AverageRF              | % RSD | 4.8          |   | ≤ 15             | 1.16           |   | 0.01        |
| 2-Nitroaniline               | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 0.372          |   | 0.01        |
| Acenaphthylene               | TRG           | AverageRF              | % RSD | 3.6          |   | ≤ 15             | 1.78           |   | 0.01        |
| Dimethyl Phthalate           | TRG           | AverageRF              | % RSD | 6.7          |   | ≤ 15             | 1.36           |   | 0.01        |
| 2,6-Dinitrotoluene           | TRG           | AverageRF              | % RSD | 3.6          |   | ≤ 15             | 0.308          |   | 0.01        |
| ‡ Acenaphthene               | MS            | AverageRF              | % RSD | 4.6          |   | ≤ 15             | 1.02           |   | 0.01        |
| 3-Nitroaniline               | TRG           | AverageRF              | % RSD | 3.4          |   | ≤ 15             | 0.324          |   | 0.01        |
| † 2,4-Dinitrophenol          | TRG           | AverageRF              | % RSD | 13.5         |   | ≤ 15             | 0.179          |   | 0.05        |
| Dibenzofuran                 | TRG           | AverageRF              | % RSD | 5.4          |   | ≤ 15             | 1.60           |   | 0.01        |
| † 4-Nitrophenol              | MS            | AverageRF              | % RSD | 7.4          |   | ≤ 15             | 0.176          |   | 0.05        |
| 2,4-Dinitrotoluene           | MS            | AverageRF              | % RSD | 7.5          |   | ≤ 15             | 0.391          |   | 0.01        |
| Fluorene                     | TRG           | AverageRF              | % RSD | 7.0          |   | ≤ 15             | 1.20           |   | 0.01        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                | Compound Type | Calibration Evaluation |       |              |   |                  | RRF Evaluation |   |             |
|-----------------------------|---------------|------------------------|-------|--------------|---|------------------|----------------|---|-------------|
|                             |               | Fit Type               | Eval. | Eval. Result | Q | Control Criteria | Average RRF    | Q | Minimum RRF |
| 4-Chlorophenyl Phenyl Ether | TRG           | AverageRF              | % RSD | 5.7          |   | ≤ 15             | 0.615          |   | 0.01        |
| Diethyl Phthalate           | TRG           | AverageRF              | % RSD | 11.0         |   | ≤ 15             | 1.31           |   | 0.01        |
| 4-Nitroaniline              | TRG           | AverageRF              | % RSD | 2.6          |   | ≤ 15             | 0.281          |   | 0.01        |
| 2-Methyl-4,6-dinitrophenol  | TRG           | AverageRF              | % RSD | 6.4          |   | ≤ 15             | 0.212          |   | 0.01        |
| † N-Nitrosodiphenylamine    | TRG           | AverageRF              | % RSD | 9.6          |   | ≤ 15             | 0.801          |   | 0.01        |
| 4-Bromophenyl Phenyl Ether  | TRG           | AverageRF              | % RSD | 8.1          |   | ≤ 15             | 0.241          |   | 0.01        |
| Hexachlorobenzene           | TRG           | AverageRF              | % RSD | 5.6          |   | ≤ 15             | 0.280          |   | 0.01        |
| † Pentachlorophenol         | MS            | AverageRF              | % RSD | 11.0         |   | ≤ 15             | 0.157          |   | 0.01        |
| Phenanthrene                | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 1.06           |   | 0.01        |
| Anthracene                  | TRG           | AverageRF              | % RSD | 4.6          |   | ≤ 15             | 1.12           |   | 0.01        |
| Di-n-butyl Phthalate        | TRG           | AverageRF              | % RSD | 6.2          |   | ≤ 15             | 1.22           |   | 0.01        |
| † Fluoranthene              | TRG           | AverageRF              | % RSD | 10.7         |   | ≤ 15             | 0.964          |   | 0.01        |
| Pyrene                      | MS            | AverageRF              | % RSD | 10.4         |   | ≤ 15             | 1.07           |   | 0.01        |
| Butyl Benzyl Phthalate      | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 0.608          |   | 0.01        |
| 3,3'-Dichlorobenzidine      | TRG           | AverageRF              | % RSD | 5.1          |   | ≤ 15             | 0.418          |   | 0.01        |
| Benz(a)anthracene           | TRG           | AverageRF              | % RSD | 4.5          |   | ≤ 15             | 0.940          |   | 0.01        |
| Chrysene                    | TRG           | AverageRF              | % RSD | 5.1          |   | ≤ 15             | 0.910          |   | 0.01        |
| Bis(2-ethylhexyl) Phthalate | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.866          |   | 0.01        |
| † Di-n-octyl Phthalate      | TRG           | Quadratic              | COD   | 0.998        |   | ≥ 0.990          | 1.76           |   | 0.01        |
| Benzo(b)fluoranthene        | TRG           | AverageRF              | % RSD | 9.4          |   | ≤ 15             | 1.03           |   | 0.01        |
| Benzo(k)fluoranthene        | TRG           | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.07           |   | 0.01        |
| † Benzo(a)pyrene            | TRG           | AverageRF              | % RSD | 4.9          |   | ≤ 15             | 0.856          |   | 0.01        |
| Indeno(1,2,3-cd)pyrene      | TRG           | AverageRF              | % RSD | 7.6          |   | ≤ 15             | 0.741          |   | 0.01        |
| Dibenz(a,h)anthracene       | TRG           | AverageRF              | % RSD | 8.2          |   | ≤ 15             | 0.789          |   | 0.01        |
| Benzo(g,h,i)perylene        | TRG           | AverageRF              | % RSD | 4.7          |   | ≤ 15             | 0.800          |   | 0.01        |
| 2-Fluorophenol              | SURR          | AverageRF              | % RSD | 7.3          |   | ≤ 15             | 1.06           |   | 0.01        |
| Phenol-d6                   | SURR          | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.48           |   | 0.01        |
| Nitrobenzene-d5             | SURR          | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.45           |   | 0.01        |
| 2-Fluorobiphenyl            | SURR          | AverageRF              | % RSD | 6.1          |   | ≤ 15             | 1.31           |   | 0.01        |
| 2,4,6-Tribromophenol        | SURR          | AverageRF              | % RSD | 9.2          |   | ≤ 15             | 0.162          |   | 0.01        |
| Terphenyl-d14               | SURR          | AverageRF              | % RSD | 7.3          |   | ≤ 15             | 0.612          |   | 0.01        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010  
Date Analyzed: 06/02/2010 -  
06/03/2010

Second Source Calibration Verification  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration ID: CAL9525  
Units: ug/ml

File ID: J:\MS07\DATA\060210\0602F013.D  
J:\MS07\DATA\060210\0602F014.D  
J:\MS07\DATA\060210\0602F016.D

| Analyte Name                 | Expected | Result | Average RF | SSV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 76     | 0.956      | 0.912  | -5  | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 99     | 1.50       | 1.85   | 23  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 85     | 1.21       | 1.28   | 6   | NA     | ± 30 %   | AverageRF |
| † Phenol                     | 80       | 86     | 1.52       | 1.64   | 8   | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 83     | 1.31       | 1.36   | 4   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 79     | 1.39       | 1.37   | -1  | NA     | ± 30 %   | AverageRF |
| † 1,4-Dichlorobenzene        | 80       | 81     | 1.41       | 1.43   | 1   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 83     | 1.34       | 1.38   | 3   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 88     | 0.804      | 0.884  | 10  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 89     | 2.01       | 2.24   | 12  | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 81     | 0.984      | 0.991  | 1   | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 81     | 0.644      | 0.653  | 1   | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 77     | 0.985      | 0.949  | -4  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 84     | 1.49       | 1.57   | 5   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 79     | 1.36       | 1.35   | -1  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 76     | 0.722      | 0.686  | -5  | NA     | ± 30 %   | AverageRF |
| † 2-Nitrophenol              | 80       | 82     | 0.199      | 0.204  | 3   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 83     | 0.266      | 0.276  | 4   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 86     | 0.405      | 0.434  | 7   | NA     | ± 30 %   | AverageRF |
| † 2,4-Dichlorophenol         | 80       | 81     | 0.302      | 0.306  | 1   | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 78     | 0.228      | 0.222  | -3  | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 80     | 0.320      | 0.321  | 0   | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 80     | 0.960      | 0.962  | 0   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 74     | 0.423      | 0.392  | -7  | NA     | ± 30 %   | AverageRF |
| † Hexachlorobutadiene        | 80       | 80     | 0.203      | 0.203  | 0   | NA     | ± 20 %   | AverageRF |
| † 4-Chloro-3-methylphenol    | 80       | 73     | 0.315      | 0.287  | -9  | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 74     | 0.611      | 0.561  | -8  | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 65     | 0.373      | 0.326  | NA  | -19    | ± 30 %   | Quadratic |
| † 2,4,6-Trichlorophenol      | 80       | 86     | 0.413      | 0.445  | 8   | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 81     | 0.460      | 0.466  | 1   | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 85     | 1.16       | 1.23   | 6   | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 78     | 0.372      | 0.362  | -3  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 68     | 1.78       | 1.51   | -15 | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 71     | 1.36       | 1.20   | -12 | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 75     | 0.308      | 0.288  | -7  | NA     | ± 30 %   | AverageRF |
| † Acenaphthene               | 80       | 77     | 1.02       | 0.979  | -4  | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 72     | 0.324      | 0.293  | -10 | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 79     | 0.179      | 0.176  | -2  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010  
Date Analyzed: 06/02/2010 -  
06/03/2010

Second Source Calibration Verification  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration ID: CAL9525  
Units: ug/ml

| Analyte Name                | Expected | Result | Average RF | SSV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 75     | 1.60       | 1.50   | -6  | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 75     | 0.176      | 0.165  | -6  | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 67     | 0.391      | 0.325  | -17 | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 71     | 1.20       | 1.07   | -11 | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 70     | 0.615      | 0.537  | -13 | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 70     | 1.31       | 1.14   | -13 | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 81     | 0.281      | 0.283  | 1   | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 83     | 0.212      | 0.220  | 3   | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 65     | 0.801      | 0.653  | -18 | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 78     | 0.241      | 0.234  | -3  | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 76     | 0.280      | 0.266  | -5  | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 79     | 0.157      | 0.155  | -1  | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 81     | 1.06       | 1.07   | 1   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 74     | 1.12       | 1.04   | -7  | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 83     | 1.22       | 1.26   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 80     | 0.964      | 0.962  | 0   | NA     | ± 30 %   | AverageRF |
| Pyrene                      | 80       | 68     | 1.07       | 0.905  | -15 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 79     | 0.608      | 0.604  | -1  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 75     | 0.418      | 0.393  | -6  | NA     | ± 30 %   | AverageRF |
| Benz(a)anthracene           | 80       | 74     | 0.940      | 0.866  | -8  | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 77     | 0.910      | 0.880  | -3  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 83     | 0.866      | 0.900  | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 87     | 1.76       | 2.07   | NA  | 9      | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 82     | 1.03       | 1.06   | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 83     | 1.07       | 1.12   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 96     | 0.856      | 1.02   | 20  | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 82     | 0.741      | 0.760  | 3   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 80     | 0.789      | 0.786  | 0   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 80     | 0.800      | 0.796  | -1  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration Date: 06/02/2010  
 Calibration ID: CAL9525  
 Analysis Lot: KWG1005663  
 Units: ug/ml

File ID: J:\MS07\DATA\061010\0610F002.D

| Analyte Name                 | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 86     | 0.01   | 0.956      | 1.03   | 8   | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 73     | 0.01   | 1.50       | 1.38   | -8  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 72     | 0.01   | 1.21       | 1.09   | -10 | NA     | ± 30 %   | AverageRF |
| ‡ Phenol                     | 80       | 77     | 0.01   | 1.52       | 1.45   | -4  | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 86     | 0.01   | 1.39       | 1.50   | 8   | NA     | ± 30 %   | AverageRF |
| ‡ 1,4-Dichlorobenzene        | 80       | 84     | 0.01   | 1.41       | 1.49   | 5   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 85     | 0.01   | 1.34       | 1.42   | 6   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 83     | 0.01   | 0.804      | 0.839  | 4   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 63     | 0.01   | 2.01       | 1.59   | -21 | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 78     | 0.01   | 0.984      | 0.954  | -3  | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 88     | 0.01   | 0.644      | 0.709  | 10  | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 73     | 0.05   | 0.985      | 0.894  | -9  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 82     | 0.01   | 1.49       | 1.53   | 2   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 76     | 0.01   | 1.36       | 1.30   | -4  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 69     | 0.01   | 0.722      | 0.625  | -13 | NA     | ± 30 %   | AverageRF |
| ‡ 2-Nitrophenol              | 80       | 84     | 0.01   | 0.199      | 0.210  | 6   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 80     | 0.01   | 0.266      | 0.266  | 0   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 73     | 0.01   | 0.405      | 0.372  | -8  | NA     | ± 30 %   | AverageRF |
| ‡ 2,4-Dichlorophenol         | 80       | 87     | 0.01   | 0.302      | 0.327  | 8   | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 82     | 0.01   | 0.228      | 0.234  | 3   | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 92     | 0.01   | 0.320      | 0.369  | 15  | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 85     | 0.01   | 0.960      | 1.02   | 6   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 77     | 0.01   | 0.423      | 0.405  | -4  | NA     | ± 30 %   | AverageRF |
| ‡ Hexachlorobutadiene        | 80       | 91     | 0.01   | 0.203      | 0.232  | 14  | NA     | ± 20 %   | AverageRF |
| ‡ 4-Chloro-3-methylphenol    | 80       | 84     | 0.01   | 0.315      | 0.331  | 5   | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 82     | 0.01   | 0.611      | 0.624  | 2   | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 61     | 0.05   | 0.373      | 0.308  | NA  | -23    | ± 30 %   | Quadratic |
| ‡ 2,4,6-Trichlorophenol      | 80       | 92     | 0.01   | 0.413      | 0.473  | 15  | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 88     | 0.01   | 0.460      | 0.508  | 10  | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 80     | 0.01   | 1.16       | 1.15   | -1  | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 78     | 0.01   | 0.372      | 0.363  | -3  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 83     | 0.01   | 1.78       | 1.85   | 4   | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 85     | 0.01   | 1.36       | 1.44   | 6   | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 82     | 0.01   | 0.308      | 0.317  | 3   | NA     | ± 30 %   | AverageRF |
| ‡ Acenaphthene               | 80       | 86     | 0.01   | 1.02       | 1.09   | 8   | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 81     | 0.01   | 0.324      | 0.328  | 1   | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 76     | 0.05   | 0.179      | 0.170  | -5  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration Date: 06/02/2010  
Calibration ID: CAL9525  
Analysis Lot: KWG1005663  
Units: ug/ml

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 90     | 0.01   | 1.60       | 1.80   | 12  | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 97     | 0.05   | 0.176      | 0.213  | 22  | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 85     | 0.01   | 0.391      | 0.417  | 7   | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 86     | 0.01   | 1.20       | 1.30   | 8   | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 87     | 0.01   | 0.615      | 0.671  | 9   | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 87     | 0.01   | 1.31       | 1.43   | 9   | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 83     | 0.01   | 0.281      | 0.291  | 4   | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 84     | 0.01   | 0.212      | 0.223  | 5   | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 88     | 0.01   | 0.801      | 0.878  | 10  | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 85     | 0.01   | 0.241      | 0.257  | 6   | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 87     | 0.01   | 0.280      | 0.304  | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 82     | 0.01   | 0.157      | 0.162  | 3   | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 83     | 0.01   | 1.06       | 1.10   | 3   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 80     | 0.01   | 1.12       | 1.11   | 0   | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 82     | 0.01   | 1.22       | 1.24   | 2   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 83     | 0.01   | 0.964      | 0.996  | 3   | NA     | ± 20 %   | AverageRF |
| Pyrene                      | 80       | 70     | 0.01   | 1.07       | 0.939  | -12 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 74     | 0.01   | 0.608      | 0.563  | -7  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 82     | 0.01   | 0.418      | 0.429  | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(a)anthracene          | 80       | 82     | 0.01   | 0.940      | 0.964  | 3   | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 80     | 0.01   | 0.910      | 0.905  | -1  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 77     | 0.01   | 0.866      | 0.837  | -3  | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 83     | 0.01   | 1.76       | 1.96   | NA  | 4      | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 90     | 0.01   | 1.03       | 1.16   | 13  | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 85     | 0.01   | 1.07       | 1.14   | 6   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 80     | 0.01   | 0.856      | 0.856  | 0   | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 86     | 0.01   | 0.741      | 0.796  | 7   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 85     | 0.01   | 0.789      | 0.842  | 7   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 82     | 0.01   | 0.800      | 0.825  | 3   | NA     | ± 30 %   | AverageRF |
| 2-Fluorophenol              | 80       | 74     | 0.01   | 1.06       | 0.983  | -8  | NA     | ± 30 %   | AverageRF |
| Phenol-d6                   | 80       | 70     | 0.01   | 1.48       | 1.30   | -12 | NA     | ± 30 %   | AverageRF |
| Nitrobenzene-d5             | 80       | 75     | 0.01   | 1.45       | 1.35   | -7  | NA     | ± 30 %   | AverageRF |
| 2-Fluorobiphenyl            | 80       | 81     | 0.01   | 1.31       | 1.32   | 1   | NA     | ± 30 %   | AverageRF |
| 2,4,6-Tribromophenol        | 80       | 83     | 0.01   | 0.162      | 0.169  | 4   | NA     | ± 30 %   | AverageRF |
| Terphenyl-d14               | 80       | 71     | 0.01   | 0.612      | 0.544  | -11 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration Date: 06/02/2010  
 Calibration ID: CAL9525  
 Analysis Lot: KWG1005687  
 Units: ug/ml

File ID: J:\MS07\DATA\061010\0610F013.D

| Analyte Name                 | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 81     | 0.01   | 0.956      | 0.963  | 1   | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 83     | 0.01   | 1.50       | 1.55   | 3   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 76     | 0.01   | 1.21       | 1.15   | -5  | NA     | ± 30 %   | AverageRF |
| ‡ Phenol                     | 80       | 84     | 0.01   | 1.52       | 1.60   | 5   | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 84     | 0.01   | 1.31       | 1.38   | 5   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 83     | 0.01   | 1.39       | 1.45   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ 1,4-Dichlorobenzene        | 80       | 82     | 0.01   | 1.41       | 1.46   | 3   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 83     | 0.01   | 1.34       | 1.38   | 3   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 93     | 0.01   | 0.804      | 0.938  | 17  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 76     | 0.01   | 2.01       | 1.91   | -5  | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 83     | 0.01   | 0.984      | 1.02   | 4   | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 83     | 0.01   | 0.644      | 0.665  | 3   | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 77     | 0.05   | 0.985      | 0.951  | -3  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 85     | 0.01   | 1.49       | 1.58   | 6   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 78     | 0.01   | 1.36       | 1.32   | -3  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 79     | 0.01   | 0.722      | 0.713  | -1  | NA     | ± 30 %   | AverageRF |
| ‡ 2-Nitrophenol              | 80       | 87     | 0.01   | 0.199      | 0.217  | 9   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 87     | 0.01   | 0.266      | 0.289  | 9   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 79     | 0.01   | 0.405      | 0.398  | -2  | NA     | ± 30 %   | AverageRF |
| ‡ 2,4-Dichlorophenol         | 80       | 88     | 0.01   | 0.302      | 0.332  | 10  | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 87     | 0.01   | 0.228      | 0.249  | 9   | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 85     | 0.01   | 0.320      | 0.340  | 6   | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 81     | 0.01   | 0.960      | 0.967  | 1   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 82     | 0.01   | 0.423      | 0.433  | 2   | NA     | ± 30 %   | AverageRF |
| ‡ Hexachlorobutadiene        | 80       | 85     | 0.01   | 0.203      | 0.215  | 6   | NA     | ± 20 %   | AverageRF |
| ‡ 4-Chloro-3-methylphenol    | 80       | 84     | 0.01   | 0.315      | 0.331  | 5   | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 82     | 0.01   | 0.611      | 0.625  | 2   | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 64     | 0.05   | 0.373      | 0.322  | NA  | -20    | ± 30 %   | Quadratic |
| ‡ 2,4,6-Trichlorophenol      | 80       | 87     | 0.01   | 0.413      | 0.450  | 9   | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 84     | 0.01   | 0.460      | 0.485  | 5   | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 83     | 0.01   | 1.16       | 1.20   | 4   | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 76     | 0.01   | 0.372      | 0.352  | -5  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 83     | 0.01   | 1.78       | 1.85   | 4   | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 78     | 0.01   | 1.36       | 1.33   | -2  | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 80     | 0.01   | 0.308      | 0.308  | 0   | NA     | ± 30 %   | AverageRF |
| ‡ Acenaphthene               | 80       | 83     | 0.01   | 1.02       | 1.06   | 4   | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 77     | 0.01   | 0.324      | 0.312  | -4  | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 72     | 0.05   | 0.179      | 0.161  | -10 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration Date: 06/02/2010  
 Calibration ID: CAL9525  
 Analysis Lot: KWG1005687  
 Units: ug/ml

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 81     | 0.01   | 1.60       | 1.63   | 1   | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 84     | 0.05   | 0.176      | 0.184  | 5   | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 73     | 0.01   | 0.391      | 0.358  | -8  | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 80     | 0.01   | 1.20       | 1.21   | 0   | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 78     | 0.01   | 0.615      | 0.596  | -3  | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 78     | 0.01   | 0.281      | 0.273  | -3  | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 73     | 0.01   | 0.212      | 0.193  | -9  | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 75     | 0.01   | 0.801      | 0.747  | -7  | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 88     | 0.01   | 0.241      | 0.265  | 10  | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 89     | 0.01   | 0.280      | 0.312  | 12  | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 82     | 0.01   | 0.157      | 0.161  | 3   | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 81     | 0.01   | 1.06       | 1.08   | 1   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 80     | 0.01   | 1.12       | 1.12   | 0   | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 87     | 0.01   | 1.22       | 1.32   | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 82     | 0.01   | 0.964      | 0.992  | 3   | NA     | ± 20 %   | AverageRF |
| Pyrene                      | 80       | 70     | 0.01   | 1.07       | 0.940  | -12 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 79     | 0.01   | 0.608      | 0.598  | -2  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 80     | 0.01   | 0.418      | 0.420  | 1   | NA     | ± 30 %   | AverageRF |
| Benz(a)anthracene           | 80       | 80     | 0.01   | 0.940      | 0.944  | 0   | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 79     | 0.01   | 0.910      | 0.902  | -1  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 83     | 0.01   | 0.866      | 0.901  | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 90     | 0.01   | 1.76       | 2.14   | NA  | 12     | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 87     | 0.01   | 1.03       | 1.12   | 9   | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 87     | 0.01   | 1.07       | 1.17   | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 84     | 0.01   | 0.856      | 0.894  | 5   | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 87     | 0.01   | 0.741      | 0.802  | 8   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 83     | 0.01   | 0.789      | 0.815  | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 84     | 0.01   | 0.800      | 0.843  | 5   | NA     | ± 30 %   | AverageRF |
| 2-Fluorophenol              | 80       | 79     | 0.01   | 1.06       | 1.05   | -1  | NA     | ± 30 %   | AverageRF |
| Phenol-d6                   | 80       | 78     | 0.01   | 1.48       | 1.45   | -2  | NA     | ± 30 %   | AverageRF |
| Nitrobenzene-d5             | 80       | 76     | 0.01   | 1.45       | 1.38   | -5  | NA     | ± 30 %   | AverageRF |
| 2-Fluorobiphenyl            | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 2,4,6-Tribromophenol        | 80       | 84     | 0.01   | 0.162      | 0.169  | 4   | NA     | ± 30 %   | AverageRF |
| Terphenyl-d14               | 80       | 70     | 0.01   | 0.612      | 0.538  | -12 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

Analysis Run Log  
 Semi-Volatile Organic Compounds by GC/MS

Analysis Method: 8270C

Analysis Lot: KWG1005663  
 Instrument ID: MS07

| File ID    | Sample Name                         | Lab Code     | Date Analysis Started | Start Time | Q | Date Analysis Finished | Finish Time |
|------------|-------------------------------------|--------------|-----------------------|------------|---|------------------------|-------------|
| 0610F001.D | GC/MS Tuning - Decafluorotripheny   | KWG1005663-1 | 6/10/2010             | 14:51      |   | 6/10/2010              | 15:20       |
| 0610F002.D | Continuing Calibration Verification | KWG1005663-2 | 6/10/2010             | 15:32      |   | 6/10/2010              | 16:01       |
| 0610F003.D | ZZZZZZ                              | ZZZZZZ       | 6/10/2010             | 16:16      |   | 6/10/2010              | 16:45       |
| 0610F004.D | ZZZZZZ                              | ZZZZZZ       | 6/10/2010             | 16:56      |   | 6/10/2010              | 17:25       |
| 0610F005.D | ZZZZZZ                              | ZZZZZZ       | 6/10/2010             | 17:37      |   | 6/10/2010              | 18:06       |
| 0610F006.D | ZZZZZZ                              | ZZZZZZ       | 6/10/2010             | 18:17      |   | 6/10/2010              | 18:46       |
| 0610F007.D | Method Blank                        | KWG1005659-5 | 6/10/2010             | 18:58      |   | 6/10/2010              | 19:27       |
| 0610F008.D | Lab Control Sample                  | KWG1005659-3 | 6/10/2010             | 19:38      |   | 6/10/2010              | 20:07       |
| 0610F009.D | Duplicate Lab Control Sample        | KWG1005659-4 | 6/10/2010             | 20:18      |   | 6/10/2010              | 20:47       |
| 0610F010.D | Batch QCMS                          | KWG1005659-1 | 6/10/2010             | 20:58      |   | 6/10/2010              | 21:27       |
| 0610F011.D | Batch QCDMS                         | KWG1005659-2 | 6/10/2010             | 21:38      |   | 6/10/2010              | 22:07       |

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

Analysis Run Log  
 Semi-Volatile Organic Compounds by GC/MS

Analysis Method: 8270C

Analysis Lot: KWG1005687  
 Instrument ID: MS07

| File ID    | Sample Name                         | Lab Code     | Date Analysis Started | Start Time | Q | Date Analysis Finished | Finish Time |
|------------|-------------------------------------|--------------|-----------------------|------------|---|------------------------|-------------|
| 0610F012.D | GC/MS Tuning - Decafluorotripheny   | KWG1005687-1 | 6/10/2010             | 22:19      |   | 6/10/2010              | 22:48       |
| 0610F013.D | Continuing Calibration Verification | KWG1005687-2 | 6/10/2010             | 22:59      |   | 6/10/2010              | 23:28       |
| 0610F015.D | Batch QC                            | K1005175-012 | 6/11/2010             | 00:19      |   | 6/11/2010              | 00:48       |
| 0610F016.D | D-4-16                              | K1005244-003 | 6/11/2010             | 01:00      |   | 6/11/2010              | 01:29       |
| 0610F017.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 01:40      |   | 6/11/2010              | 02:09       |
| 0610F018.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 02:20      |   | 6/11/2010              | 02:49       |
| 0610F019.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 03:00      |   | 6/11/2010              | 03:29       |
| 0610F020.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 03:41      |   | 6/11/2010              | 04:10       |
| 0610F021.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 04:21      |   | 6/11/2010              | 04:50       |
| 0610F022.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 05:01      |   | 6/11/2010              | 05:30       |
| 0610F023.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 05:41      |   | 6/11/2010              | 06:10       |
| 0610F024.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 06:22      |   | 6/11/2010              | 06:51       |
| 0610F025.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 07:02      |   | 6/11/2010              | 07:31       |
| 0610F026.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 07:41      |   | 6/11/2010              | 08:10       |
| 0610F027.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 08:21      |   | 6/11/2010              | 08:50       |
| 0610F028.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 09:02      |   | 6/11/2010              | 09:31       |
| 0610F029.D | ZZZZZZ                              | ZZZZZZ       | 6/11/2010             | 09:42      |   | 6/11/2010              | 10:11       |

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010

**Extraction Prep Log**  
**Semi-Volatile Organic Compounds by GC/MS**

**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Extraction Lot:** KWG1005659  
**Level:** Low

| Sample Name                  | Lab Code     | Date Collected | Date Received | Sample Amount | Final Volume | % Solids | Note |
|------------------------------|--------------|----------------|---------------|---------------|--------------|----------|------|
| D-4-16                       | K1005244-003 | 05/19/10       | 05/21/10      | 33.86g        | 1mL          | 90.7     |      |
| Method Blank                 | KWG1005659-5 | NA             | NA            | 40.82g        | 1mL          | NA       |      |
| Batch QC                     | K1005175-012 | NA             | NA            | 40.40g        | 1mL          | 86.0     |      |
| Batch QCMS                   | KWG1005659-1 | NA             | NA            | 40.35g        | 1mL          | 86.0     |      |
| Batch QCDMS                  | KWG1005659-2 | NA             | NA            | 40.36g        | 1mL          | 86.0     |      |
| Lab Control Sample           | KWG1005659-3 | NA             | NA            | 30.00g        | 1mL          | NA       |      |
| Duplicate Lab Control Sample | KWG1005659-4 | NA             | NA            | 30.00g        | 1mL          | NA       |      |

Results flagged with an asterisk (\*) indicate the holding time was exceeded for the analysis



Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Validation Package

Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Validation Package

QC Reports



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244

Surrogate Recovery Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: PERCENT  
 Level: Low

| Sample Name                  | Lab Code     | Sur1 | Sur2 | Sur3 | Sur4 | Sur5 | Sur6 |
|------------------------------|--------------|------|------|------|------|------|------|
| D-4-16                       | K1005244-003 | 28   | 45   | 51   | 66   | 22   | 97   |
| Method Blank                 | KWG1005659-5 | 56   | 55   | 54   | 66   | 65   | 100  |
| Batch QC                     | K1005175-012 | 56   | 58   | 53   | 60   | 72   | 90   |
| Batch QCMS                   | KWG1005659-1 | 59   | 64   | 65   | 68   | 78   | 78   |
| Batch QCDMS                  | KWG1005659-2 | 60   | 66   | 66   | 65   | 73   | 75   |
| Lab Control Sample           | KWG1005659-3 | 59   | 66   | 74   | 75   | 95   | 92   |
| Duplicate Lab Control Sample | KWG1005659-4 | 64   | 74   | 76   | 77   | 85   | 87   |

Surrogate Recovery Control Limits (%)

|                         |        |                             |        |
|-------------------------|--------|-----------------------------|--------|
| Sur1 = 2-Fluorophenol   | 20-83  | Sur5 = 2,4,6-Tribromophenol | 20-123 |
| Sur2 = Phenol-d6        | 23-90  | Sur6 = Terphenyl-d14        | 37-133 |
| Sur3 = Nitrobenzene-d5  | 29-100 |                             |        |
| Sur4 = 2-Fluorobiphenyl | 32-104 |                             |        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 15:32

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F002.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005663-2  
 Analysis Lot: KWG1005663

|                 | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |       | Acenaphthene-d10 |       |
|-----------------|------------------------|------|----------------|-------|------------------|-------|
|                 | Area                   | RT   | Area           | RT    | Area             | RT    |
| Results ==>     | 109,990                | 9.33 | 420,027        | 11.44 | 219,736          | 14.29 |
| Upper Limit ==> | 219,980                | 9.83 | 840,054        | 11.94 | 439,472          | 14.79 |
| Lower Limit ==> | 54,995                 | 8.83 | 210,014        | 10.94 | 109,868          | 13.79 |
| ICAL Result ==> | 103,733                | 9.34 | 407,774        | 11.45 | 224,107          | 14.30 |

Associated Analyses

|                              |              |        |      |         |       |         |       |
|------------------------------|--------------|--------|------|---------|-------|---------|-------|
| Method Blank                 | KWG1005659-5 | 85,541 | 9.33 | 294,990 | 11.43 | 165,284 | 14.29 |
| Lab Control Sample           | KWG1005659-3 | 82,022 | 9.33 | 303,037 | 11.43 | 175,397 | 14.30 |
| Duplicate Lab Control Sample | KWG1005659-4 | 82,853 | 9.33 | 328,582 | 11.44 | 180,044 | 14.29 |
| Batch QCMS                   | KWG1005659-1 | 86,297 | 9.33 | 318,991 | 11.43 | 167,887 | 14.30 |
| Batch QCDMS                  | KWG1005659-2 | 93,653 | 9.33 | 364,424 | 11.43 | 186,774 | 14.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 15:32

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F002.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005663-2  
 Analysis Lot: KWG1005663

|                 | Phenanthrene-d10 |           | Chrysene-d12 |           | Perylene-d12 |           |
|-----------------|------------------|-----------|--------------|-----------|--------------|-----------|
|                 | <u>Area</u>      | <u>RT</u> | <u>Area</u>  | <u>RT</u> | <u>Area</u>  | <u>RT</u> |
| Results ==>     | 325,013          | 16.70     | 353,756      | 21.13     | 274,061      | 24.31     |
| Upper Limit ==> | 650,026          | 17.20     | 707,512      | 21.63     | 548,122      | 24.81     |
| Lower Limit ==> | 162,507          | 16.20     | 176,878      | 20.63     | 137,031      | 23.81     |
| ICAL Result ==> | 285,196          | 16.70     | 279,166      | 21.13     | 255,637      | 24.31     |

Associated Analyses

|                              |              |         |       |         |       |         |       |
|------------------------------|--------------|---------|-------|---------|-------|---------|-------|
| Method Blank                 | KWG1005659-5 | 233,584 | 16.69 | 198,229 | 21.11 | 158,955 | 24.29 |
| Lab Control Sample           | KWG1005659-3 | 226,308 | 16.70 | 231,145 | 21.12 | 195,621 | 24.30 |
| Duplicate Lab Control Sample | KWG1005659-4 | 242,964 | 16.69 | 239,385 | 21.12 | 200,450 | 24.30 |
| Batch QCMS                   | KWG1005659-1 | 221,940 | 16.70 | 245,359 | 21.11 | 200,032 | 24.30 |
| Batch QCDMS                  | KWG1005659-2 | 217,711 | 16.69 | 252,445 | 21.11 | 199,314 | 24.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 22:59

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F013.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005687-2  
 Analysis Lot: KWG1005687

|                 | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |       | Acenaphthene-d10 |       |
|-----------------|------------------------|------|----------------|-------|------------------|-------|
|                 | Area                   | RT   | Area           | RT    | Area             | RT    |
| Results ==>     | 142,104                | 9.33 | 539,393        | 11.44 | 286,996          | 14.29 |
| Upper Limit ==> | 284,208                | 9.83 | 1,078,786      | 11.94 | 573,992          | 14.79 |
| Lower Limit ==> | 71,052                 | 8.83 | 269,697        | 10.94 | 143,498          | 13.79 |
| ICAL Result ==> | 103,733                | 9.34 | 407,774        | 11.45 | 224,107          | 14.30 |

Associated Analyses

|          |              |        |      |         |       |         |       |
|----------|--------------|--------|------|---------|-------|---------|-------|
| Batch QC | K1005175-012 | 82,676 | 9.33 | 292,699 | 11.43 | 168,356 | 14.29 |
| D-4-16   | K1005244-003 | 80,671 | 9.33 | 293,139 | 11.42 | 166,893 | 14.28 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010  
 Time Analyzed: 22:59

Internal Standard Area and RT Summary  
 Semi-Volatile Organic Compounds by GC/MS

File ID: J:\MS07\DATA\061010\0610F013.D  
 Instrument ID: MS07  
 Analysis Method: 8270C

Lab Code: KWG1005687-2  
 Analysis Lot: KWG1005687

|                            | Phenanthrene-d10 |         | Chrysene-d12 |         | Perylene-d12 |         |       |
|----------------------------|------------------|---------|--------------|---------|--------------|---------|-------|
|                            | Area             | RT      | Area         | RT      | Area         | RT      |       |
| Results ==>                | 353,872          | 16.70   | 408,000      | 21.13   | 306,648      | 24.31   |       |
| Upper Limit ==>            | 707,744          | 17.20   | 816,000      | 21.63   | 613,296      | 24.81   |       |
| Lower Limit ==>            | 176,936          | 16.20   | 204,000      | 20.63   | 153,324      | 23.81   |       |
| ICAL Result ==>            | 285,196          | 16.70   | 279,166      | 21.13   | 255,637      | 24.31   |       |
| <i>Associated Analyses</i> |                  |         |              |         |              |         |       |
| Batch QC                   | K1005175-012     | 245,334 | 16.69        | 218,908 | 21.11        | 176,848 | 24.30 |
| D-4-16                     | K1005244-003     | 224,585 | 16.69        | 208,104 | 21.10        | 171,637 | 24.29 |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Extracted: 06/01/2010  
 Date Analyzed: 06/10/2010

**Matrix Spike/Duplicate Matrix Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS**

Sample Name: Batch QC  
 Lab Code: K1005175-012  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low  
 Extraction Lot: KWG1005659

| Analyte Name              | Sample Result | Batch QCMS<br>KWG1005659-1<br>Matrix Spike |          |      | Batch QCDMS<br>KWG1005659-2<br>Duplicate Matrix Spike |          |      | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------------|---------------|--|----------|------|---|----------|------|----------------|-----|--------------|
|                           |               | Result                                     | Expected | %Rec | Result  | Expected | %Rec |                |     |              |
| Phenol                    | ND            | 1.85                                       | 2.88     | 64   | 1.85  | 2.88     | 64   | 18-106         | 0   | 40           |
| 2-Chlorophenol            | ND            | 1.87                                       | 2.88     | 65   | 1.78  | 2.88     | 62   | 27-96          | 5   | 40           |
| 1,4-Dichlorobenzene       | ND            | 1.91                                       | 2.88     | 66   | 1.73  | 2.88     | 60   | 28-95          | 10  | 40           |
| N-Nitrosodi-n-propylamine | ND            | 1.92                                       | 2.88     | 66   | 1.89  | 2.88     | 65   | 32-107         | 2   | 40           |
| 1,2,4-Trichlorobenzene    | ND            | 1.98                                       | 2.88     | 69   | 1.93  | 2.88     | 67   | 28-105         | 3   | 40           |
| 4-Chloro-3-methylphenol   | ND            | 2.09                                       | 2.88     | 72   | 1.90  | 2.88     | 66   | 13-122         | 9   | 40           |
| Acenaphthene              | ND            | 2.19                                       | 2.88     | 76   | 1.97  | 2.88     | 68   | 30-113         | 11  | 40           |
| 4-Nitrophenol             | ND            | 2.19                                       | 2.88     | 76   | 1.89  | 2.88     | 66   | 12-141         | 14  | 40           |
| 2,4-Dinitrotoluene        | ND            | 2.24                                       | 2.88     | 78   | 1.85  | 2.88     | 64   | 36-127         | 19  | 40           |
| Pentachlorophenol         | ND            | 1.85                                       | 2.88     | 64   | 1.75  | 2.88     | 61   | 10-135         | 6   | 40           |
| Pyrene                    | ND            | 1.94                                       | 2.88     | 67   | 1.98  | 2.88     | 69   | 24-126         | 2   | 40           |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Extracted: 06/01/2010  
 Date Analyzed: 06/10/2010

Lab Control Spike/Duplicate Lab Control Spike Summary  
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low  
 Extraction Lot: KWG1005659

| Analyte Name                 | Lab Control Sample<br>KWG1005659-3<br>Lab Control Spike |          |      | Duplicate Lab Control Sample<br>KWG1005659-4<br>Duplicate Lab Control Spike |          |      | %Rec<br>Limits | RPD | RPD<br>Limit |
|------------------------------|---|----------|------|---|----------|------|----------------|-----|--------------|
|                              | Result  | Expected | %Rec | Result  | Expected | %Rec |                |     |              |
| N-Nitrosodimethylamine       | 2.14  | 3.33     | 64   | 2.41  | 3.33     | 72   | 34-93          | 12  | 40           |
| Aniline                      | 2.43  | 3.33     | 73   | 2.55  | 3.33     | 76   | 24-92          | 5   | 40           |
| Bis(2-chloroethyl) Ether     | 2.35  | 3.33     | 70   | 2.52  | 3.33     | 76   | 42-88          | 7   | 40           |
| Phenol                       | 2.25  | 3.33     | 68   | 2.39  | 3.33     | 72   | 40-87          | 6   | 40           |
| 2-Chlorophenol               | 2.30  | 3.33     | 69   | 2.38  | 3.33     | 71   | 42-86          | 4   | 40           |
| 1,3-Dichlorobenzene          | 2.35  | 3.33     | 70   | 2.37  | 3.33     | 71   | 41-84          | 1   | 40           |
| 1,4-Dichlorobenzene          | 2.40  | 3.33     | 72   | 2.38  | 3.33     | 71   | 41-85          | 1   | 40           |
| 1,2-Dichlorobenzene          | 2.42  | 3.33     | 73   | 2.40  | 3.33     | 72   | 41-86          | 1   | 40           |
| Benzyl Alcohol               | 2.52  | 3.33     | 76   | 2.49  | 3.33     | 75   | 35-96          | 1   | 40           |
| Bis(2-chloroisopropyl) Ether | 2.08  | 3.33     | 62   | 2.24  | 3.33     | 67   | 39-94          | 7   | 40           |
| 2-Methylphenol               | 2.33  | 3.33     | 70   | 2.46  | 3.33     | 74   | 35-92          | 5   | 40           |
| Hexachloroethane             | 2.22  | 3.33     | 67   | 2.29  | 3.33     | 69   | 40-87          | 3   | 40           |
| N-Nitrosodi-n-propylamine    | 2.47  | 3.33     | 74   | 2.63  | 3.33     | 79   | 41-96          | 6   | 40           |
| 4-Methylphenol               | 2.56  | 3.33     | 77   | 2.59  | 3.33     | 78   | 38-94          | 1   | 40           |
| Nitrobenzene                 | 2.47  | 3.33     | 74   | 2.45  | 3.33     | 73   | 44-92          | 1   | 40           |
| Isophorone                   | 2.63  | 3.33     | 79   | 2.49  | 3.33     | 75   | 42-93          | 6   | 40           |
| 2-Nitrophenol                | 2.75  | 3.33     | 82   | 2.48  | 3.33     | 74   | 44-95          | 10  | 40           |
| 2,4-Dimethylphenol           | 2.34  | 3.33     | 70   | 2.02  | 3.33     | 61   | 16-89          | 15  | 40           |
| Bis(2-chloroethoxy)methane   | 2.59  | 3.33     | 78   | 2.40  | 3.33     | 72   | 45-93          | 8   | 40           |
| 2,4-Dichlorophenol           | 2.66  | 3.33     | 80   | 2.52  | 3.33     | 76   | 43-94          | 6   | 40           |
| Benzoic Acid                 | 1.95  | 3.33     | 59   | 1.52  | 3.33     | 46   | 10-104         | 25  | 40           |
| 1,2,4-Trichlorobenzene       | 2.68  | 3.33     | 80   | 2.66  | 3.33     | 80   | 42-91          | 1   | 40           |
| Naphthalene                  | 2.68  | 3.33     | 80   | 2.62  | 3.33     | 79   | 44-92          | 2   | 40           |
| 4-Chloroaniline              | 2.65  | 3.33     | 79   | 2.71  | 3.33     | 81   | 37-96          | 2   | 40           |
| Hexachlorobutadiene          | 2.64  | 3.33     | 79   | 2.48  | 3.33     | 75   | 42-91          | 6   | 40           |
| 4-Chloro-3-methylphenol      | 3.03  | 3.33     | 91   | 2.61  | 3.33     | 78   | 44-101         | 15  | 40           |
| 2-Methylnaphthalene          | 2.76  | 3.33     | 83   | 2.75  | 3.33     | 82   | 44-95          | 0   | 40           |
| Hexachlorocyclopentadiene    | 1.14  | 3.33     | 34   | 1.12  | 3.33     | 34   | 10-68          | 2   | 40           |
| 2,4,6-Trichlorophenol        | 2.74  | 3.33     | 82   | 2.71  | 3.33     | 81   | 46-101         | 1   | 40           |
| 2,4,5-Trichlorophenol        | 2.87  | 3.33     | 86   | 2.63  | 3.33     | 79   | 46-103         | 9   | 40           |
| 2-Chloronaphthalene          | 2.71  | 3.33     | 81   | 2.61  | 3.33     | 78   | 44-95          | 4   | 40           |
| 2-Nitroaniline               | 2.66  | 3.33     | 80   | 2.64  | 3.33     | 79   | 48-108         | 1   | 40           |
| Acenaphthylene               | 3.02  | 3.33     | 91   | 2.74  | 3.33     | 82   | 46-99          | 10  | 40           |
| Dimethyl Phthalate           | 3.21  | 3.33     | 96   | 2.83  | 3.33     | 85   | 48-113         | 13  | 40           |
| 2,6-Dinitrotoluene           | 2.96  | 3.33     | 89   | 2.72  | 3.33     | 81   | 49-114         | 9   | 40           |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low  
**Extraction Lot:** KWG1005659

| Analyte Name                | Lab Control Sample<br>KWG1005659-3<br>Lab Control Spike |          |      | Duplicate Lab Control Sample<br>KWG1005659-4<br>Duplicate Lab Control Spike |          |      | %Rec<br>Limits | RPD | RPD<br>Limit |
|-----------------------------|---|----------|------|---|----------|------|----------------|-----|--------------|
|                             | Result  | Expected | %Rec | Result  | Expected | %Rec |                |     |              |
| Acenaphthene                | 3.02  | 3.33     | 91   | 2.85  | 3.33     | 85   | 49-97          | 6   | 40           |
| 3-Nitroaniline              | 2.80  | 3.33     | 84   | 2.65  | 3.33     | 80   | 46-111         | 5   | 40           |
| 2,4-Dinitrophenol           | 2.32  | 3.33     | 70   | 1.94  | 3.33     | 58   | 28-116         | 18  | 40           |
| Dibenzofuran                | 2.97  | 3.33     | 89   | 2.51  | 3.33     | 75   | 47-101         | 17  | 40           |
| 4-Nitrophenol               | 2.93  | 3.33     | 88   | 2.54  | 3.33     | 76   | 41-121         | 14  | 40           |
| 2,4-Dinitrotoluene          | 2.99  | 3.33     | 90   | 2.77  | 3.33     | 83   | 48-119         | 7   | 40           |
| Fluorene                    | 3.06  | 3.33     | 92   | 2.94  | 3.33     | 88   | 46-103         | 4   | 40           |
| 4-Chlorophenyl Phenyl Ether | 2.84  | 3.33     | 85   | 2.85  | 3.33     | 85   | 46-105         | 0   | 40           |
| Diethyl Phthalate           | 3.26  | 3.33     | 98   | 2.91  | 3.33     | 87   | 45-121         | 11  | 40           |
| 4-Nitroaniline              | 3.06  | 3.33     | 92   | 2.73  | 3.33     | 82   | 39-120         | 11  | 40           |
| 2-Methyl-4,6-dinitrophenol  | 2.87  | 3.33     | 86   | 2.49  | 3.33     | 75   | 41-119         | 14  | 40           |
| N-Nitrosodiphenylamine      | 3.05  | 3.33     | 91   | 2.68  | 3.33     | 80   | 44-113         | 13  | 40           |
| 4-Bromophenyl Phenyl Ether  | 3.36  | 3.33     | 101  | 2.90  | 3.33     | 87   | 49-110         | 15  | 40           |
| Hexachlorobenzene           | 3.38  | 3.33     | 101  | 2.94  | 3.33     | 88   | 50-109         | 14  | 40           |
| Pentachlorophenol           | 2.80  | 3.33     | 84   | 2.31  | 3.33     | 69   | 39-112         | 19  | 40           |
| Phenanthrene                | 3.16  | 3.33     | 95   | 2.96  | 3.33     | 89   | 52-108         | 6   | 40           |
| Anthracene                  | 3.15  | 3.33     | 95   | 2.60  | 3.33     | 78   | 50-108         | 19  | 40           |
| Di-n-butyl Phthalate        | 3.27  | 3.33     | 98   | 2.97  | 3.33     | 89   | 50-124         | 10  | 40           |
| Fluoranthene                | 3.27  | 3.33     | 98   | 2.91  | 3.33     | 87   | 48-116         | 12  | 40           |
| Pyrene                      | 2.93  | 3.33     | 88   | 2.78  | 3.33     | 83   | 45-116         | 5   | 40           |
| Butyl Benzyl Phthalate      | 2.92  | 3.33     | 88   | 2.64  | 3.33     | 79   | 51-114         | 10  | 40           |
| 3,3'-Dichlorobenzidine      | 3.08  | 3.33     | 92   | 2.62  | 3.33     | 78   | 38-116         | 16  | 40           |
| Benz(a)anthracene           | 3.39  | 3.33     | 102  | 2.92  | 3.33     | 88   | 54-109         | 15  | 40           |
| Chrysene                    | 3.29  | 3.33     | 99   | 2.97  | 3.33     | 89   | 53-109         | 10  | 40           |
| Bis(2-ethylhexyl) Phthalate | 3.14  | 3.33     | 94   | 2.85  | 3.33     | 86   | 51-115         | 10  | 40           |
| Di-n-octyl Phthalate        | 3.18  | 3.33     | 95   | 2.77  | 3.33     | 83   | 51-121         | 14  | 40           |
| Benzo(b)fluoranthene        | 3.35  | 3.33     | 101  | 2.94  | 3.33     | 88   | 53-110         | 13  | 40           |
| Benzo(k)fluoranthene        | 3.37  | 3.33     | 101  | 2.99  | 3.33     | 90   | 52-112         | 12  | 40           |
| Benzo(a)pyrene              | 3.53  | 3.33     | 106  | 3.23  | 3.33     | 97   | 51-114         | 9   | 40           |
| Indeno(1,2,3-cd)pyrene      | 3.15  | 3.33     | 95   | 2.84  | 3.33     | 85   | 53-112         | 10  | 40           |
| Dibenz(a,h)anthracene       | 3.22  | 3.33     | 97   | 2.76  | 3.33     | 83   | 53-114         | 15  | 40           |
| Benzo(g,h,i)perylene        | 3.22  | 3.33     | 97   | 2.69  | 3.33     | 81   | 50-110         | 18  | 40           |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 18:58

**Method Blank Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank **File ID:** J:\MS07\DATA\061010\0610F007.D  
**Lab Code:** KWG1005659-5 **Instrument ID:** MS07  
**Extraction Method:** EPA 3541 **Level:** Low  
**Analysis Method:** 8270C **Extraction Lot:** KWG1005659

This Method Blank applies to the following analyses:

| Sample Name                  | Lab Code     | File ID                        | Date Analyzed | Time Analyzed |
|------------------------------|--------------|--------------------------------|---------------|---------------|
| Lab Control Sample           | KWG1005659-3 | J:\MS07\DATA\061010\0610F008.D | 06/10/10      | 19:38         |
| Duplicate Lab Control Sample | KWG1005659-4 | J:\MS07\DATA\061010\0610F009.D | 06/10/10      | 20:18         |
| Batch QCMS                   | KWG1005659-1 | J:\MS07\DATA\061010\0610F010.D | 06/10/10      | 20:58         |
| Batch QCDMS                  | KWG1005659-2 | J:\MS07\DATA\061010\0610F011.D | 06/10/10      | 21:38         |
| Batch QC                     | K1005175-012 | J:\MS07\DATA\061010\0610F015.D | 06/11/10      | 00:19         |
| D-4-16                       | K1005244-003 | J:\MS07\DATA\061010\0610F016.D | 06/11/10      | 01:00         |



**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Extracted:** 06/01/2010  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 19:38

**Lab Control Sample Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** KWG1005659-3  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**File ID:** J:\MS07\DATA\061010\0610F008.D  
**Instrument ID:** MS07  
**Level:** Low  
**Extraction Lot:** KWG1005659

This Lab Control Sample applies to the following analyses:

| Sample Name  | Lab Code     | File ID                        | Date Analyzed | Time Analyzed |
|--------------|--------------|--------------------------------|---------------|---------------|
| Method Blank | KWG1005659-5 | J:\MS07\DATA\061010\0610F007.D | 06/10/10      | 18:58         |
| Batch QCMS   | KWG1005659-1 | J:\MS07\DATA\061010\0610F010.D | 06/10/10      | 20:58         |
| Batch QCDMS  | KWG1005659-2 | J:\MS07\DATA\061010\0610F011.D | 06/10/10      | 21:38         |
| Batch QC     | K1005175-012 | J:\MS07\DATA\061010\0610F015.D | 06/11/10      | 00:19         |
| D-4-16       | K1005244-003 | J:\MS07\DATA\061010\0610F016.D | 06/11/10      | 01:00         |

Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Validation Package

Raw Data

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** 05/19/2010  
**Date Received:** 05/21/2010

## Semi-Volatile Organic Compounds by GC/MS

**Sample Name:** D-4-16  
**Lab Code:** K1005244-003  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | ND     | U | 2.0  | 0.026  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Aniline                      | ND     | U | 0.98 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | ND     | U | 0.33 | 0.012  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenol                       | ND     | U | 0.33 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chlorophenol               | ND     | U | 0.33 | 0.0099 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | ND     | U | 0.33 | 0.019  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzyl Alcohol               | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylphenol               | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachloroethane             | ND     | U | 0.33 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | ND     | U | 0.33 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Methylphenol†              | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Nitrobenzene                 | ND     | U | 0.33 | 0.027  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Isophorone                   | ND     | U | 0.33 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitrophenol                | ND     | U | 0.33 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | ND     | U | 0.33 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzoic Acid                 | ND     | U | 2.0  | 0.14   | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Naphthalene                  | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloroaniline              | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobutadiene          | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | ND     | U | 0.33 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | ND     | U | 0.33 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | ND     | U | 0.33 | 0.013  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | ND     | U | 0.33 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | ND     | U | 0.33 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | ND     | U | 0.33 | 0.010  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitroaniline               | ND     | U | 2.0  | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthylene               | ND     | U | 0.33 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments: \_\_\_\_\_



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: 05/19/2010  
 Date Received: 05/21/2010

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: D-4-16  
 Lab Code: K1005244-003  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | ND     | U | 0.33 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | ND     | U | 0.33 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthene                | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3-Nitroaniline              | ND     | U | 2.0  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | ND     | U | 2.0  | 0.12  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenzofuran                | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitrophenol               | ND     | U | 2.0  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluorene                    | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | ND     | U | 0.33 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Diethyl Phthalate           | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitroaniline              | ND     | U | 2.0  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | ND     | U | 2.0  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | ND     | U | 0.33 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobenzene           | ND     | U | 0.33 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pentachlorophenol           | ND     | U | 2.0  | 0.13  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenanthrene                | ND     | U | 0.33 | 0.010 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Anthracene                  | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluoranthene                | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pyrene                      | ND     | U | 0.33 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | ND     | U | 0.33 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | ND     | U | 2.0  | 0.027 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benz(a)anthracene           | ND     | U | 0.33 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Chrysene                    | ND     | U | 0.33 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 0.076  | J | 0.33 | 0.019 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | ND     | U | 0.33 | 0.024 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | ND     | U | 0.33 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | ND     | U | 0.33 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(a)pyrene              | ND     | U | 0.33 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | ND     | U | 0.33 | 0.039 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | ND     | U | 0.33 | 0.028 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglal - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** 05/19/2010  
**Date Received:** 05/21/2010

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** D-4-16  
**Lab Code:** K1005244-003  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | ND     | U | 0.33 | 0.021 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 28   | 20-83          | 06/11/10      | Acceptable |
| Phenol-d6            | 45   | 23-90          | 06/11/10      | Acceptable |
| Nitrobenzene-d5      | 51   | 29-100         | 06/11/10      | Acceptable |
| 2-Fluorobiphenyl     | 66   | 32-104         | 06/11/10      | Acceptable |
| 2,4,6-Tribromophenol | 22   | 20-123         | 06/11/10      | Acceptable |
| Terphenyl-d14        | 97   | 37-133         | 06/11/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F016.D  
**Lab ID:** K1005244-003  
**RunType:** SMPL  
**Matrix:** MISC. SOLID

**Date Acquired:** 06/11/2010 01:00  
**Date Quantitated:** 06/11/2010 12:39  
**Batch ID:** KWG1005687  
**Analysis Method:** 8270C  
**ListJoinID:** LJ1859

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| Preparation Holding Time              | NA     | NA        | NA         | x    |      |
| Pre-Preparation Holding Time          | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         | x    |      |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         | x    |      |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Method Blank                          | NA     | NA        | NA         | x    |      |
| MB Surrogate Recovery                 | NA     | NA        | NA         | x    |      |
| Lab Control Spike                     | NA     | NA        | NA         | x    |      |
| Duplicate Lab Control Spike           | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

Primary Review: AG-14-10

Secondary Review: LB 6/14/10



# Quantitation Report

|                   |           |                      |            |                      |             |
|-------------------|-----------|----------------------|------------|----------------------|-------------|
| <b>Bottle ID:</b> |           | <b>Tier:</b>         | V          | <b>Matrix:</b>       | MISC. SOLID |
| <b>Prod Code:</b> | 8270C SVO | <b>Collect Date:</b> | 05/19/2010 | <b>Receive Date:</b> | 05/21/2010  |

|                         |            |                     |            |                      |          |
|-------------------------|------------|---------------------|------------|----------------------|----------|
| <b>Analysis Lot:</b>    | KWG1005687 | <b>Prep Lot:</b>    | KWG1005659 | <b>Report Group:</b> | K1005244 |
| <b>Analysis Method:</b> | 8270C      | <b>Prep Method:</b> | EPA 3541   |                      |          |
| <b>Prep Ref:</b>        | 918259     | <b>Prep Date:</b>   | 06/01/2010 |                      |          |

|                      |  |                                   |         |
|----------------------|--|-----------------------------------|---------|
| <b>Quant Method:</b> | J:\MS07\METHODS\8270_625\0602BNC7.M      | <b>Calibration ID:</b>            | CAL9525 |
| <b>Title:</b>        | Semi-Volatile Organic Compounds by GC/MS | <b>Report List ID:</b>            | LJ1859  |
| <b>Tune Ref:</b>     | J:\MS07\DATA\061010\0610F012.D           | <b>Method ID:</b>                 | MJ250   |
| <b>MB Ref:</b>       | J:\MS07\DATA\061010\0610F007.D           | <b>Quant based on Report List</b> |         |

|                   |                                |                          |                  |
|-------------------|--------------------------------|--------------------------|------------------|
| <b>Data File:</b> | J:\MS07\DATA\061010\0610F016.D | <b>Instrument:</b>       | MS07             |
| <b>Acqu Date:</b> | 06/11/2010 01:00               | <b>Quant Date:</b>       | 06/11/2010 12:39 |
| <b>Run Type:</b>  | SMPL                           | <b>Vial:</b>             | 13               |
| <b>Lab ID:</b>    | K1005244-003                   | <b>Dilution:</b>         | 1.0              |
|                   |                                | <b>Soln Conc. Units:</b> | ug/ml            |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 80671    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.42 | -0.02  | 136        | 293139   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.28 | -0.01  | 164        | 166893   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.69 | -0.01  | 188        | 224585   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.10 | -0.03  | 240        | 208104   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.29 | -0.02  | 264        | 171637   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.09  | -0.02  | 0.00    | 112        | 90509    | 42.20         | 28   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.83  | -0.01  | 0.00    | 99         | 199705   | 66.76         | 45   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.26 | -0.02  | 0.00    | 82         | 148150   | 50.70         | 51   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.23 | 0.00   | 0.00    | 172        | 359121   | 65.64         | 66   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.58 | 0.00   | 0.00    | 330        | 29958    | 32.91         | 22   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.31 | 0.00   | 0.00    | 244        | 308516   | 96.82         | 97   | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name               | RT | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|------------------------------|----|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine       |    |        |         | 42         | 0        |               | 0.026      | U |      |
| 1      | Aniline                      |    |        |         | 93         | 0d       |               | 0.022      | U |      |
| 1      | Bis(2-chloroethyl) Ether     |    |        |         | 93         | 0d       |               | 0.012      | U |      |
| 1      | Phenol                       |    |        |         | 94         | 0d       |               | 0.020      | U |      |
| 1      | 2-Chlorophenol               |    |        |         | 128        | 0        |               | 0.0099     | U |      |
| 1      | 1,3-Dichlorobenzene          |    |        |         | 146        | 0        |               | 0.019      | U |      |
| 1      | 1,4-Dichlorobenzene          |    |        |         | 146        | 0        |               | 0.018      | U |      |
| 1      | 1,2-Dichlorobenzene          |    |        |         | 146        | 0        |               | 0.018      | U |      |
| 1      | Benzyl Alcohol               |    |        |         | 108        | 0        |               | 0.017      | U |      |
| 1      | Bis(2-chloroisopropyl) Ether |    |        |         | 45         | 0        |               | 0.015      | U |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

|                   |                                |                          |                  |
|-------------------|--------------------------------|--------------------------|------------------|
| <b>Data File:</b> | J:\MS07\DATA\061010\0610F016.D | <b>Instrument:</b>       | MS07             |
| <b>Acqu Date:</b> | 06/11/2010 01:00               | <b>Quant Date:</b>       | 06/11/2010 12:39 |
| <b>Run Type:</b>  | SMPL                           | <b>Vial:</b>             | 13               |
| <b>Lab ID:</b>    | K1005244-003                   | <b>Dilution:</b>         | 1.0              |
|                   |                                | <b>Soln Conc. Units:</b> | ug/ml            |

| <b>Target Compounds</b> |                             |           |               |                |                   | <b>Final Conc. Units:</b> |                      | <b>mg/Kg Dry Weight</b> |          |             |
|-------------------------|-----------------------------|-----------|---------------|----------------|-------------------|---------------------------|----------------------|-------------------------|----------|-------------|
| <b>IS Ref</b>           | <b>Parameter Name</b>       | <b>RT</b> | <b>RT Dev</b> | <b>RRT Dev</b> | <b>Quant Mass</b> | <b>Response</b>           | <b>Solution Conc</b> | <b>Final Conc</b>       | <b>Q</b> | <b>Rpt?</b> |
| 1                       | 2-Methylphenol              |           |               |                | 107               | 0                         |                      | 0.017                   | U        |             |
| 1                       | Hexachloroethane            |           |               |                | 117               | 0                         |                      | 0.022                   | U        |             |
| 1                       | N-Nitrosodi-n-propylamine   |           |               |                | 70                | 0d                        |                      | 0.020                   | U        |             |
| 1                       | 4-Methylphenol              |           |               |                | 107               | 0                         |                      | 0.017                   | U        |             |
| 1                       | Nitrobenzene                |           |               |                | 77                | 0d                        |                      | 0.027                   | U        |             |
| 2                       | Isophorone                  |           |               |                | 82                | 0d                        |                      | 0.014                   | U        |             |
| 2                       | 2-Nitrophenol               |           |               |                | 139               | 0                         |                      | 0.014                   | U        |             |
| 2                       | 2,4-Dimethylphenol          |           |               |                | 122               | 0                         |                      | 0.016                   | U        |             |
| 2                       | Bis(2-chloroethoxy)methane  |           |               |                | 93                | 0d                        |                      | 0.011                   | U        |             |
| 2                       | 2,4-Dichlorophenol          |           |               |                | 162               | 0                         |                      | 0.017                   | U        |             |
| 2                       | Benzoic Acid                |           |               |                | 122               | 0                         |                      | 0.14                    | U        |             |
| 2                       | 1,2,4-Trichlorobenzene      |           |               |                | 180               | 0                         |                      | 0.011                   | U        |             |
| 2                       | Naphthalene                 |           |               |                | 128               | 0                         |                      | 0.015                   | U        |             |
| 2                       | 4-Chloroaniline             |           |               |                | 127               | 0d                        |                      | 0.015                   | U        |             |
| 2                       | Hexachlorobutadiene         |           |               |                | 225               | 0                         |                      | 0.015                   | U        |             |
| 2                       | 4-Chloro-3-methylphenol     |           |               |                | 107               | 0                         |                      | 0.017                   | U        |             |
| 2                       | 2-Methylnaphthalene         |           |               |                | 142               | 0                         |                      | 0.011                   | U        |             |
| 3                       | Hexachlorocyclopentadiene   |           |               |                | 237               | 0                         |                      | 0.013                   | U        |             |
| 3                       | 2,4,6-Trichlorophenol       |           |               |                | 196               | 0                         |                      | 0.015                   | U        |             |
| 3                       | 2,4,5-Trichlorophenol       |           |               |                | 196               | 0                         |                      | 0.018                   | U        |             |
| 3                       | 2-Chloronaphthalene         |           |               |                | 162               | 0d                        |                      | 0.010                   | U        |             |
| 3                       | 2-Nitroaniline              |           |               |                | 65                | 0d                        |                      | 0.017                   | U        |             |
| 3                       | Acenaphthylene              |           |               |                | 152               | 0                         |                      | 0.016                   | U        |             |
| 3                       | Dimethyl Phthalate          |           |               |                | 163               | 0d                        |                      | 0.017                   | U        |             |
| 3                       | 2,6-Dinitrotoluene          |           |               |                | 165               | 0d                        |                      | 0.016                   | U        |             |
| 3                       | Acenaphthene                |           |               |                | 154               | 0d                        |                      | 0.014                   | U        |             |
| 3                       | 3-Nitroaniline              |           |               |                | 138               | 0                         |                      | 0.18                    | U        |             |
| 3                       | 2,4-Dinitrophenol           |           |               |                | 184               | 0                         |                      | 0.12                    | U        |             |
| 3                       | Dibenzofuran                |           |               |                | 168               | 0                         |                      | 0.012                   | U        |             |
| 3                       | 4-Nitrophenol               |           |               |                | 109               | 0d                        |                      | 0.15                    | U        |             |
| 3                       | 2,4-Dinitrotoluene          |           |               |                | 165               | 0d                        |                      | 0.015                   | U        |             |
| 3                       | Fluorene                    |           |               |                | 166               | 0d                        |                      | 0.013                   | U        |             |
| 3                       | 4-Chlorophenyl Phenyl Ether |           |               |                | 204               | 0                         |                      | 0.016                   | U        |             |
| 3                       | Diethyl Phthalate           | 15.06     | -0.02         | 0.00           | 149               | 639m                      | 0.1200               | 0.015                   | U        |             |
| 3                       | 4-Nitroaniline              |           |               |                | 138               | 0                         |                      | 0.18                    | U        |             |
| 3                       | 2-Methyl-4,6-dinitrophenol  |           |               |                | 198               | 0                         |                      | 0.15                    | U        |             |
| 3                       | N-Nitrosodiphenylamine      |           |               |                | 169               | 0d                        |                      | 0.018                   | U        |             |
| 4                       | 4-Bromophenyl Phenyl Ether  |           |               |                | 248               | 0                         |                      | 0.013                   | U        |             |
| 4                       | Hexachlorobenzene           |           |               |                | 284               | 0                         |                      | 0.015                   | U        |             |
| 4                       | Pentachlorophenol           |           |               |                | 266               | 0                         |                      | 0.13                    | U        |             |
| 4                       | Phenanthrene                |           |               |                | 178               | 0d                        |                      | 0.010                   | U        |             |
| 4                       | Anthracene                  |           |               |                | 178               | 0d                        |                      | 0.014                   | U        |             |

U: Undetected at or above MDL

J: Analyte detected above MDL, but below MRL

B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL

N: Presumptive evidence of compound

D: Result from dilution

m: Manual integration performed

d: Compound manually deleted

NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria

#: Acceptance criteria not applicable

?: Insufficient information to determine acceptance

e: Result >= MRL, but MRL less than low point of ICAL

c: check for co-elution



Data File: J:\MS07\DATA\061010\0610F016.D  
 Acqu Date: 06/11/2010 01:00  
 Run Type: SMPL  
 Lab ID: K1005244-003

Quant Date: 06/11/2010 12:39

Instrument: MS07  
 Vial: 13  
 Dilution: 1.0  
 Soln Conc. Units: ug/ml

**Target Compounds**

Final Conc. Units: mg/Kg Dry Weight

| IS Ref | Parameter Name              | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 4      | Di-n-butyl Phthalate        | 17.71 | -0.01  | 0.00    | 149        | 2042m    | 0.3000        | 0.013      | U |      |
| 4      | Fluoranthene                | 18.65 | -0.01  | 0.00    | 202        | 846m     | 0.1600        | 0.012      | U |      |
| 5      | Pyrene                      | 19.01 |        | 0.00    | 202        | 1014     | 0.1800        | 0.014      | U |      |
| 5      | Butyl Benzyl Phthalate      |       |        |         | 149        | 0d       |               | 0.017      | U |      |
| 5      | 3,3'-Dichlorobenzidine      |       |        |         | 252        | 0        |               | 0.027      | U |      |
| 5      | Benz(a)anthracene           |       |        |         | 228        | 0d       |               | 0.013      | U |      |
| 5      | Chrysene                    |       |        |         | 228        | 0d       |               | 0.012      | U |      |
| 5      | Bis(2-ethylhexyl) Phthalate | 21.28 | -0.02  | 0.00    | 149        | 10506    | 2.33          | 0.076      | J |      |
| 6      | Di-n-octyl Phthalate        |       |        |         | 149        | 0d       |               | 0.024      | U |      |
| 6      | Benzo(b)fluoranthene        |       |        |         | 252        | 0d       |               | 0.018      | U |      |
| 6      | Benzo(k)fluoranthene        |       |        |         | 252        | 0        |               | 0.020      | U |      |
| 6      | Benzo(a)pyrene              |       |        |         | 252        | 0d       |               | 0.020      | U |      |
| 6      | Indeno(1,2,3-cd)pyrene      |       |        |         | 276        | 0        |               | 0.039      | U |      |
| 6      | Dibenz(a,h)anthracene       |       |        |         | 278        | 0        |               | 0.028      | U |      |
| 6      | Benzo(g,h,i)perylene        |       |        |         | 276        | 0        |               | 0.021      | U |      |

Prep Amount: 33.86 g  
 Prep Final Vol: 1 mL  
 Solids: 90.7 %

Dilution: 1.0  
 Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F016.D  
 Acq On : 11 Jun 2010 1:00 am  
 Sample : K1005244-3  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:42:53 2010

Vial: 13  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 11:42:24 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 80671    | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.42 | 136  | 293139   | 40.00 | ug/ml | -0.03    |
| 34) Acenaphthene-d10      | 14.28 | 164  | 166893   | 40.00 | ug/ml | -0.02    |
| 58) Phenanthrene-d10      | 16.69 | 188  | 224585   | 40.00 | ug/ml | -0.02    |
| 68) Chrysene-d12          | 21.10 | 240  | 208104   | 40.00 | ug/ml | -0.03    |
| 77) Perylene-d12          | 24.29 | 264  | 171637   | 40.00 | ug/ml | -0.02    |

System Monitoring Compounds

|                          |                |     |            |        |       |       |
|--------------------------|----------------|-----|------------|--------|-------|-------|
| 4) 2-Fluorophenol        | 7.09           | 112 | 90509      | 42.20  | ug/ml | -0.04 |
| Spiked Amount 150.000    | Range 21 - 100 |     | Recovery = | 28.13% |       |       |
| 7) Phenol-d6             | 8.83           | 99  | 199705     | 66.76  | ug/ml | -0.04 |
| Spiked Amount 150.000    | Range 10 - 94  |     | Recovery = | 44.51% |       |       |
| 19) Nitrobenzene-d5      | 10.26          | 82  | 148150     | 50.70  | ug/ml | -0.03 |
| Spiked Amount 100.000    | Range 35 - 114 |     | Recovery = | 50.70% |       |       |
| 38) 2-Fluorobiphenyl     | 13.23          | 172 | 359121     | 65.64  | ug/ml | -0.02 |
| Spiked Amount 100.000    | Range 43 - 116 |     | Recovery = | 65.64% |       |       |
| 59) 2,4,6-Tribromophenol | 15.58          | 330 | 29958      | 32.91  | ug/ml | -0.02 |
| Spiked Amount 150.000    | Range 10 - 123 |     | Recovery = | 21.94% |       |       |
| 71) Terphenyl-d14        | 19.31          | 244 | 308516     | 96.82  | ug/ml | -0.02 |
| Spiked Amount 100.000    | Range 33 - 141 |     | Recovery = | 96.82% |       |       |

Target Compounds

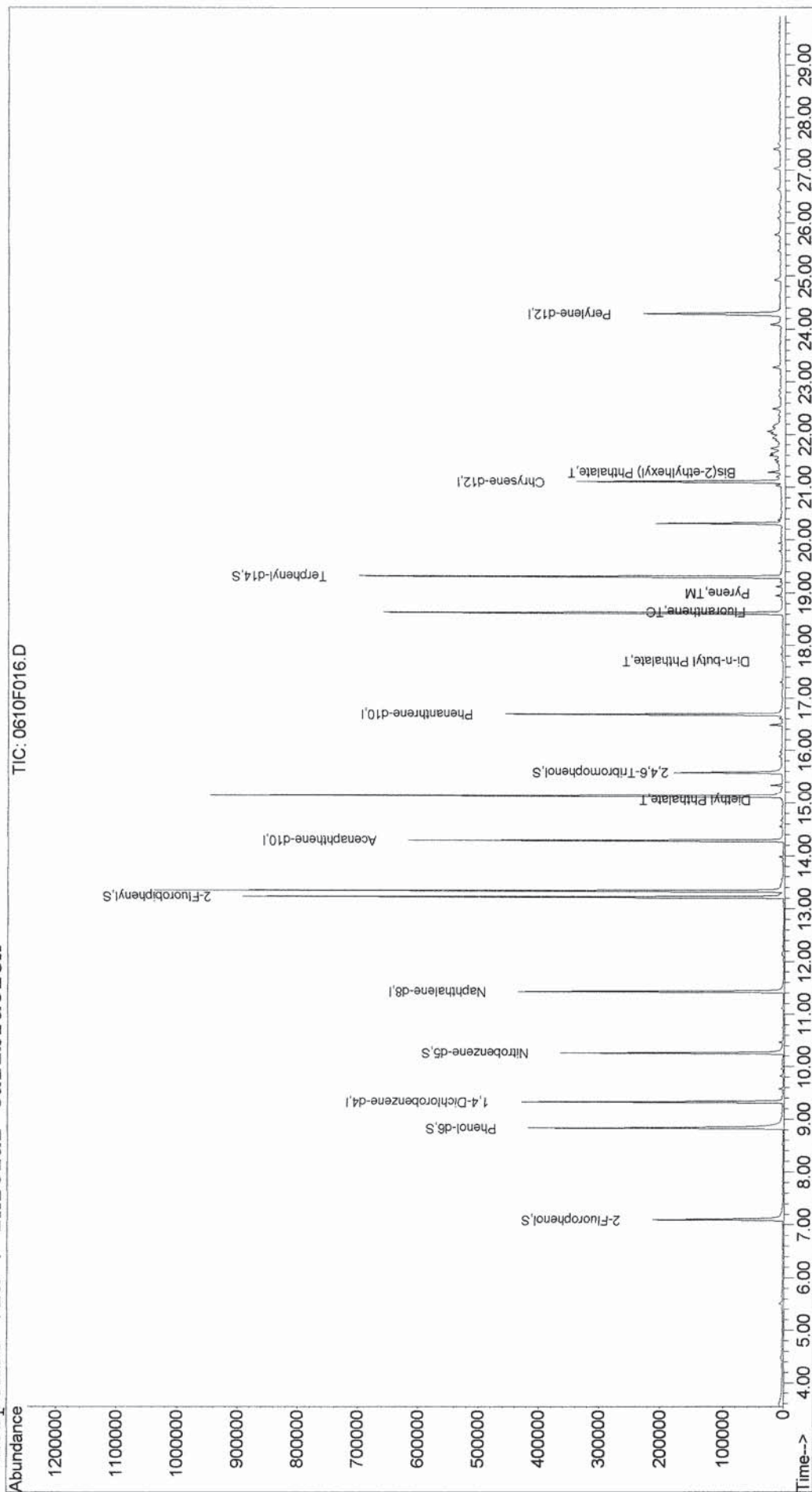
|                                |       |     |       |      |       | Qvalue |
|--------------------------------|-------|-----|-------|------|-------|--------|
| 53) Diethyl Phthalate          | 15.06 | 149 | 639m  | 0.12 | ug/ml |        |
| 66) Di-n-butyl Phthalate       | 17.71 | 149 | 2042m | 0.30 | ug/ml |        |
| 67) Fluoranthene               | 18.65 | 202 | 846m  | 0.16 | ug/ml |        |
| 70) Pyrene                     | 19.01 | 202 | 1014  | 0.18 | ug/ml | 96     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.28 | 149 | 10506 | 2.33 | ug/ml | 98     |

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

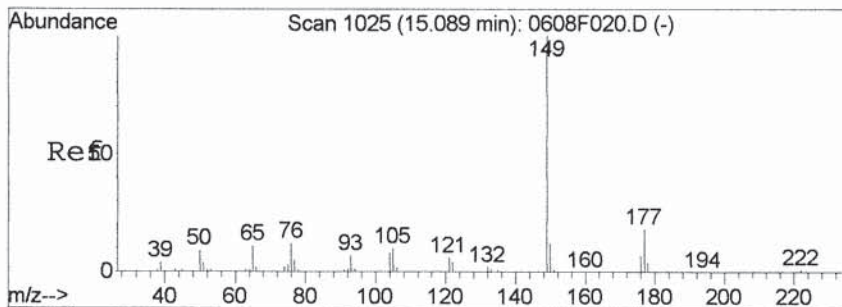
Data File : J:\MS07\DATA\061010\0610F016.D  
 Acq On : 11 Jun 2010 1:00 am  
 Sample : K1005244-3  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 12:39 2010  
 Quant Results File: 0602BNC7.RES

Vial: 13  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 11:42:24 2010  
 Response via : Initial Calibration

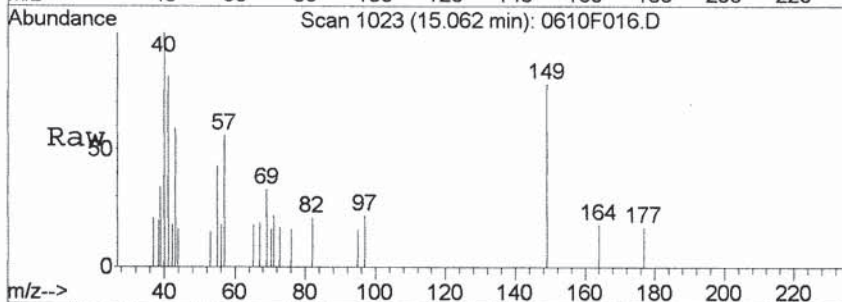






#53  
 Diethyl Phthalate  
 Concen: 0.12 ug/ml m  
 RT: 15.06 min Scan# 1023  
 Delta R.T. -0.03 min  
 Lab File: 0610F016.D  
 Acq: 11 Jun 2010 1:00 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   | 639  |       |       |
| 177     | 21.6  | 0.0  | 49.4  |       |
| 150     | 0.0   | 0.0  | 41.7  |       |

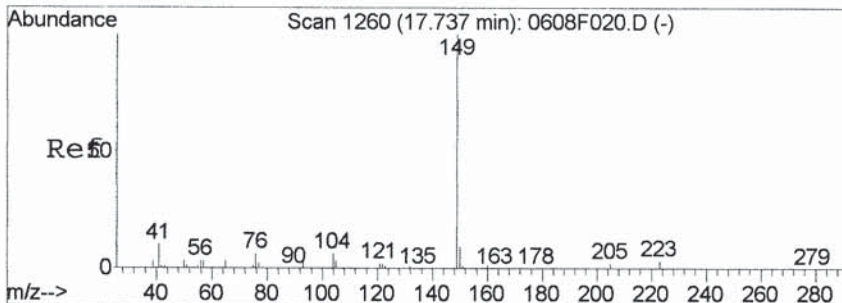
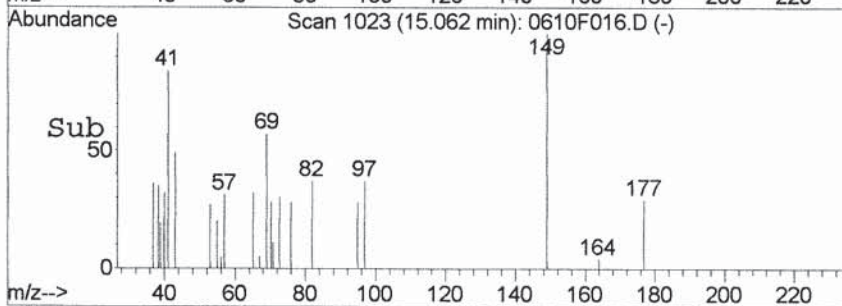
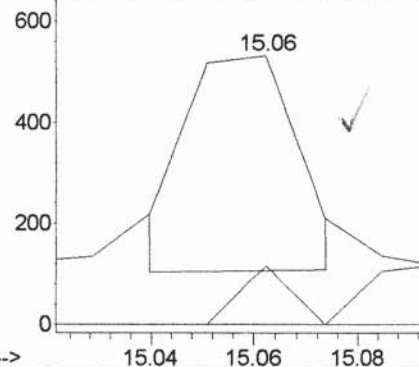


Abundance

Ion 149.00 (148.50 to 149.50): 0610F0

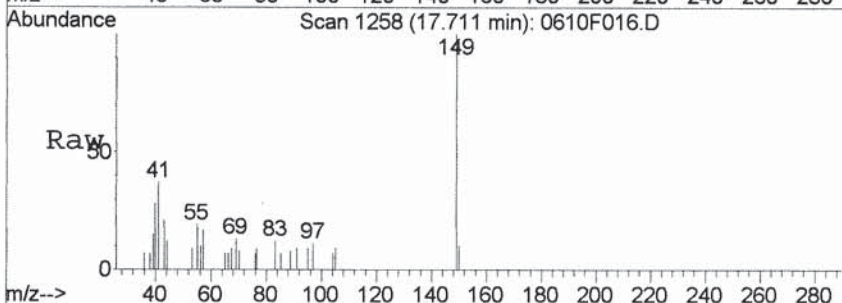
Ion 177.00 (176.50 to 177.50): 0610F0

Ion 150.00 (149.50 to 150.50): 0610F0



#66  
 Di-n-butyl Phthalate  
 Concen: 0.30 ug/ml m  
 RT: 17.71 min Scan# 1258  
 Delta R.T. -0.03 min  
 Lab File: 0610F016.D  
 Acq: 11 Jun 2010 1:00 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   | 2042 |       |       |
| 150     | 9.6   | 0.0  | 39.1  |       |
| 104     | 7.3   | 0.0  | 35.2  |       |

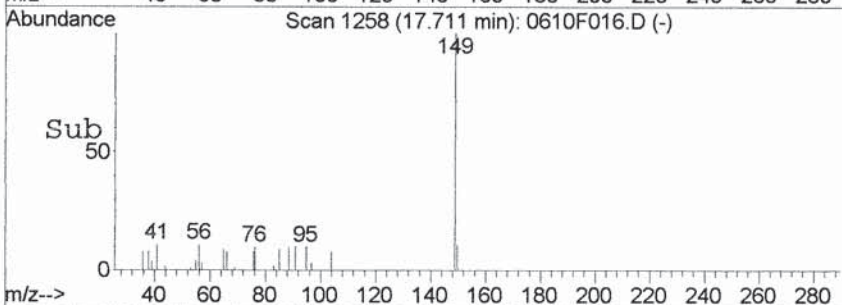
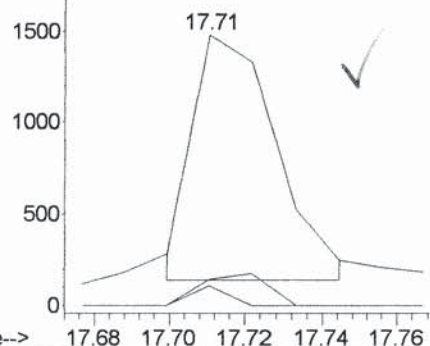


Abundance

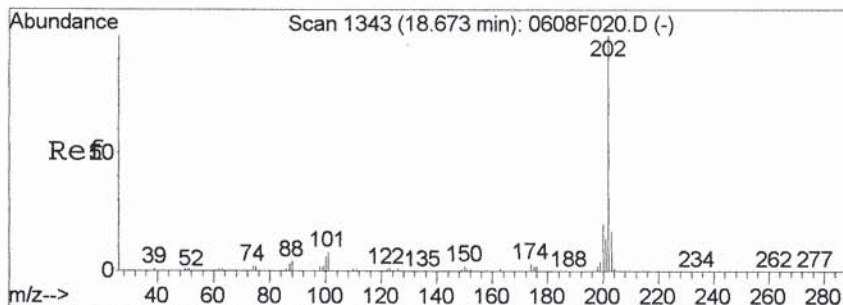
Ion 149.00 (148.50 to 149.50): 0610F0

Ion 150.00 (149.50 to 150.50): 0610F0

Ion 104.00 (103.50 to 104.50): 0610F0

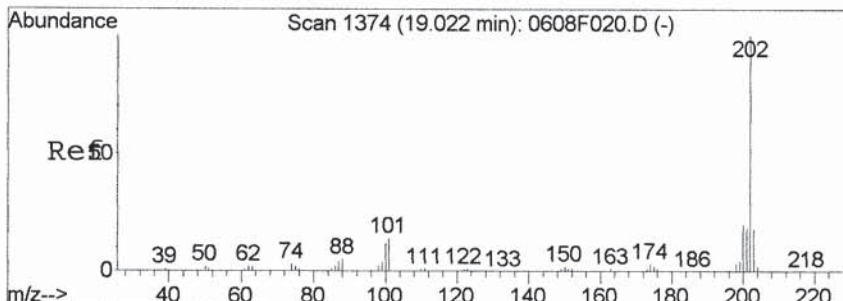
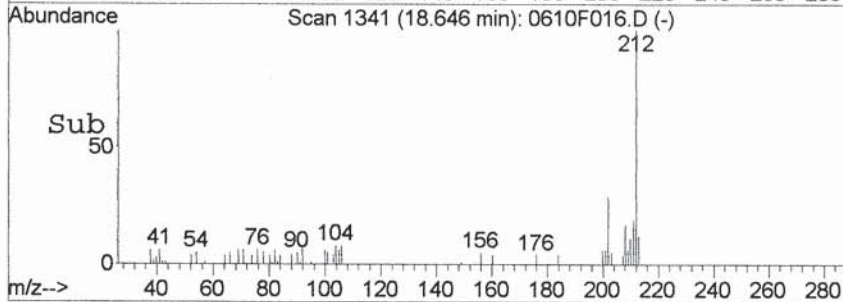
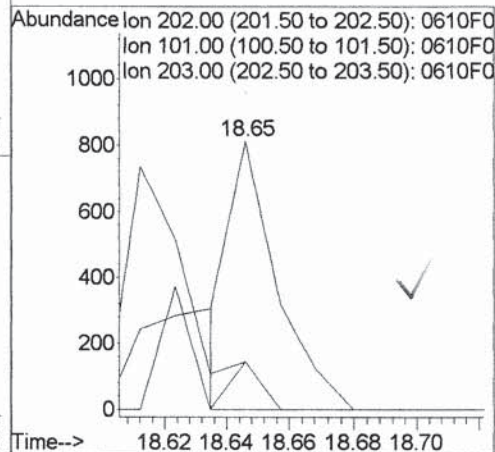
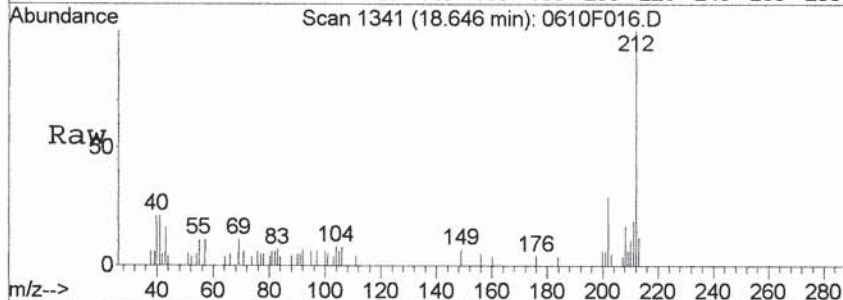






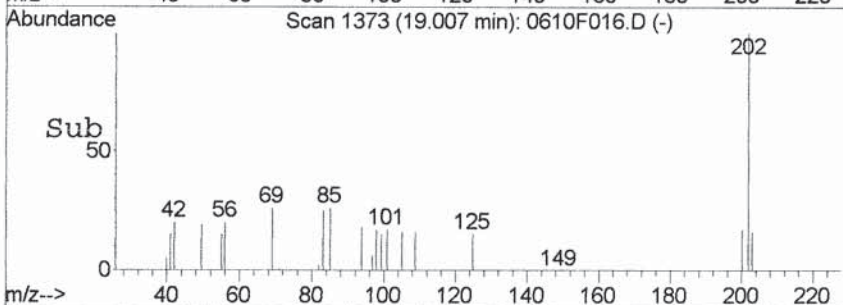
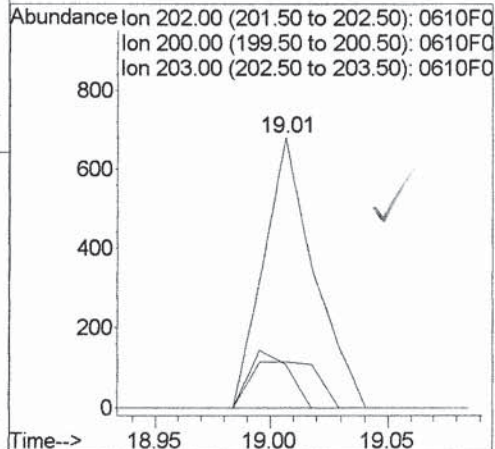
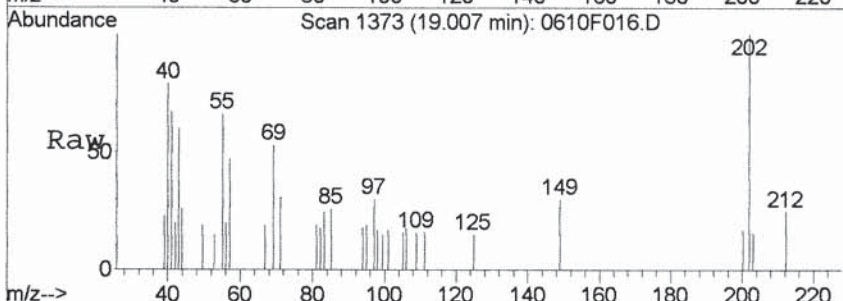
#67  
 Fluoranthene  
 Concen: 0.16 ug/ml m  
 RT: 18.65 min Scan# 1341  
 Delta R.T. -0.02 min  
 Lab File: 0610F016.D  
 Acq: 11 Jun 2010 1:00 am

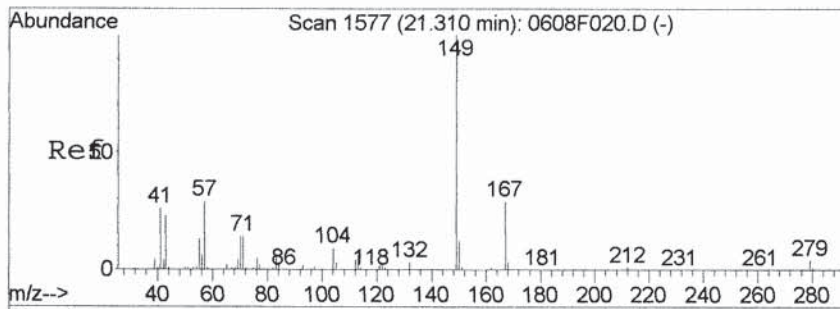
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 846  |       |       |
| 101     | 17.7  | 0.0  | 43.3  |       |
| 203     | 17.7  | 0.0  | 47.4  |       |



#70  
 Pyrene  
 Concen: 0.18 ug/ml  
 RT: 19.01 min Scan# 1373  
 Delta R.T. -0.02 min  
 Lab File: 0610F016.D  
 Acq: 11 Jun 2010 1:00 am

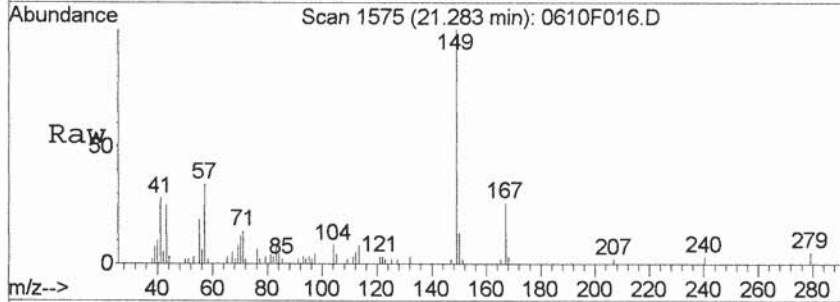
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 1014 |       |       |
| 200     | 16.9  | 0.0  | 49.7  |       |
| 203     | 16.0  | 0.0  | 46.9  |       |



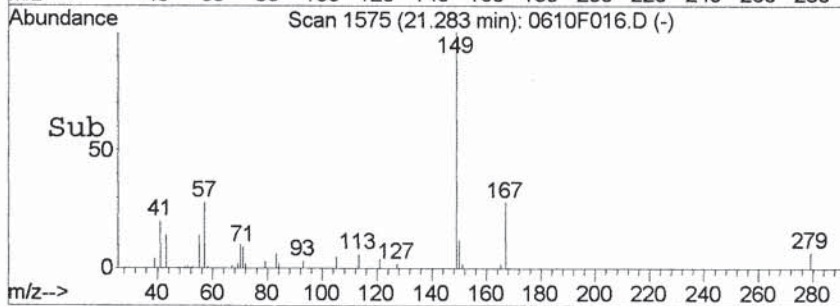
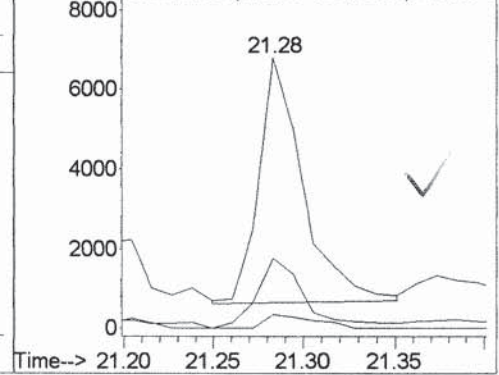


#76  
 Bis(2-ethylhexyl) Phthalate  
 Concen: 2.33 ug/ml  
 RT: 21.28 min Scan# 1575  
 Delta R.T. -0.03 min  
 Lab File: 0610F016.D  
 Acq: 11 Jun 2010 1:00 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.2  | 0.0   | 59.2  |
| 279     | 5.8   | 0.0   | 34.2  |



Abundance Ion 149.00 (148.50 to 149.50): 0610F0  
 Ion 167.00 (166.50 to 167.50): 0610F0  
 Ion 279.00 (278.50 to 279.50): 0610F0





## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: KWG1005659-5  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | ND     | U | 1.5  | 0.026  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Aniline                      | ND     | U | 0.74 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | ND     | U | 0.25 | 0.012  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenol                       | ND     | U | 0.25 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chlorophenol               | ND     | U | 0.25 | 0.0099 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | ND     | U | 0.25 | 0.019  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzyl Alcohol               | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylphenol               | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachloroethane             | ND     | U | 0.25 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | ND     | U | 0.25 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Methylphenol†              | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Nitrobenzene                 | ND     | U | 0.25 | 0.027  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Isophorone                   | ND     | U | 0.25 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitrophenol                | ND     | U | 0.25 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | ND     | U | 0.25 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzoic Acid                 | ND     | U | 1.5  | 0.14   | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Naphthalene                  | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloroaniline              | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobutadiene          | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | ND     | U | 0.25 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | ND     | U | 0.25 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | ND     | U | 0.25 | 0.013  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | ND     | U | 0.25 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | ND     | U | 0.25 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | ND     | U | 0.25 | 0.010  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitroaniline               | ND     | U | 1.5  | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthylene               | ND     | U | 0.25 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank  
 Lab Code: KWG1005659-5  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | ND     | U | 0.25 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | ND     | U | 0.25 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | ND     | U | 1.5  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | ND     | U | 1.5  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | ND     | U | 1.5  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | ND     | U | 0.25 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | ND     | U | 1.5  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | ND     | U | 1.5  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | ND     | U | 0.25 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | ND     | U | 0.25 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | ND     | U | 1.5  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | ND     | U | 0.25 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | ND     | U | 0.25 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | ND     | U | 0.25 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | ND     | U | 1.5  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | ND     | U | 0.25 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | ND     | U | 0.25 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | ND     | U | 0.25 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | ND     | U | 0.25 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | ND     | U | 0.25 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | ND     | U | 0.25 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | ND     | U | 0.25 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | ND     | U | 0.25 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | ND     | U | 0.25 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** KWG1005659-5  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | ND     | U | 0.25 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 56   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 55   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 54   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 66   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 65   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 100  | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F007.D  
**Lab ID:** KWG1005659-5  
**RunType:** MB  
**Matrix:** MISC. SOLID

**Date Acquired:** 06/10/2010 18:58  
**Date Quantitated:** 06/11/2010 08:23  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         |      | x    |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

5175  
 5247  
 5282  
 5284  
 5353

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | NT                |
| Continuing Calibration Recovery | Benzidine    | -35.0  | NA        | 30         | L                 |

Primary Review: M 6-11-10  
 Secondary Review: LB 6/11/10



# Quantitation Report

|   |                              |                       |             |
|---|------------------------------|-----------------------|-------------|
| Bottle ID:  | Tier:                        | Matrix:               | MISC. SOLID |
| Prod Code: 8270C SVO                              | Collect Date:                | Receive Date:         | 06/10/2010  |
| Analysis Lot: KWG1005663                          | Prep Lot: KWG1005659         | Report Group:         |             |
| Analysis Method: 8270C                            | Prep Method: EPA 3541        |                       |             |
| Prep Ref: 918273                                  | Prep Date: 06/01/2010        |                       |             |
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M |                              | Calibration ID:       | CAL9525     |
| Title:  |                              | Method ID:            | MJ250       |
| Tune Ref: J:\MS07\DATA\061010\0610F001.D          |                              | Quant based on Method |             |
| MB Ref:   |                              |                       |             |
| Data File: J:\MS07\DATA\061010\0610F007.D         |                              | Instrument:           | MS07        |
| Acqu Date: 06/10/2010 18:58                       | Quant Date: 06/11/2010 08:23 | Vial:                 | 5           |
| Run Type: MB                                      |                              | Dilution:             | 1.0         |
| Lab ID: KWG1005659-5                              |                              | Soln Conc. Units:     | ug/ml       |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 85541    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.43 | -0.01  | 136        | 294990   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.29 | 0.00   | 164        | 165284   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.69 | -0.01  | 188        | 233584   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.11 | -0.02  | 240        | 198229   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.29 | -0.02  | 264        | 158955   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  | 0.00   | 0.00    | 112        | 191966   | 84.41         | 56   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.84  | -0.02  | 0.00    | 99         | 263437   | 83.05         | 55   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.26 | -0.02  | 0.00    | 82         | 167894   | 54.19         | 54   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.23 | 0.00   | 0.00    | 172        | 358985   | 66.25         | 66   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.58 | -0.01  | 0.00    | 330        | 91899    | 97.07         | 65   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.31 | -0.01  | 0.00    | 244        | 303656   | 100.04        | 100  | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name           | RT | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc      | Final Conc       | Q | Rpt? |
|--------|--------------------------|----|--------|---------|------------|----------|--------------------|------------------|---|------|
|        |                          |    |        |         |            |          | Final Conc. Units: | mg/Kg Wet Weight |   |      |
| 1      | N-Nitrosodimethylamine   |    |        |         | 42         | 0        |                    | 0.026            | U |      |
| 1      | Pyridine                 |    |        |         | 79         | 0        |                    | 0.020            | U |      |
| 1      | Aniline                  |    |        |         | 93         | 0d       |                    | 0.022            | U |      |
| 1      | Bis(2-chloroethyl) Ether |    |        |         | 93         | 0d       |                    | 0.012            | U |      |
| 1      | Phenol                   |    |        |         | 94         | 0d       |                    | 0.020            | U |      |
| 1      | 2-Chlorophenol           |    |        |         | 128        | 0        |                    | 0.0099           | U |      |
| 1      | 1,3-Dichlorobenzene      |    |        |         | 146        | 0        |                    | 0.019            | U |      |
| 1      | 1,4-Dichlorobenzene      |    |        |         | 146        | 0        |                    | 0.018            | U |      |
| 1      | 1,2-Dichlorobenzene      |    |        |         | 146        | 0        |                    | 0.018            | U |      |
| 1      | Benzyl Alcohol           |    |        |         | 108        | 0        |                    | 0.017            | U |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

|            |                                |                   |                  |
|------------|--------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F007.D | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 18:58               | Quant Date:       | 06/11/2010 08:23 |
| Run Type:  | MB                             | Vial:             | 5                |
| Lab ID:    | KWG1005659-5                   | Dilution:         | 1.0              |
|            |                                | Soln Conc. Units: | ug/ml            |

**Target Compounds**

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name               | RT | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|------------------------------|----|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | Bis(2-chloroisopropyl) Ether |    |        |         | 45         | 0d       |               | 0.015      | U |      |
| 1      | 2-Methylphenol               |    |        |         | 107        | 0d       |               | 0.017      | U |      |
| 1      | Hexachloroethane             |    |        |         | 117        | 0        |               | 0.022      | U |      |
| 1      | N-Nitrosodi-n-propylamine    |    |        |         | 70         | 0d       |               | 0.020      | U |      |
| 1      | 4-Methylphenol               |    |        |         | 107        | 0d       |               | 0.017      | U |      |
| 1      | Nitrobenzene                 |    |        |         | 77         | 0d       |               | 0.027      | U |      |
| 2      | Isophorone                   |    |        |         | 82         | 0d       |               | 0.014      | U |      |
| 2      | 2-Nitrophenol                |    |        |         | 139        | 0        |               | 0.014      | U |      |
| 2      | 2,4-Dimethylphenol           |    |        |         | 122        | 0        |               | 0.016      | U |      |
| 2      | Bis(2-chloroethoxy)methane   |    |        |         | 93         | 0d       |               | 0.011      | U |      |
| 2      | 2,4-Dichlorophenol           |    |        |         | 162        | 0        |               | 0.017      | U |      |
| 2      | Benzoic Acid                 |    |        |         | 122        | 0        |               | 0.14       | U |      |
| 2      | 1,2,4-Trichlorobenzene       |    |        |         | 180        | 0        |               | 0.011      | U |      |
| 2      | Naphthalene                  |    |        |         | 128        | 0        |               | 0.015      | U |      |
| 2      | 4-Chloroaniline              |    |        |         | 127        | 0        |               | 0.015      | U |      |
| 2      | Hexachlorobutadiene          |    |        |         | 225        | 0        |               | 0.015      | U |      |
| 2      | 4-Chloro-3-methylphenol      |    |        |         | 107        | 0        |               | 0.017      | U |      |
| 2      | 2-Methylnaphthalene          |    |        |         | 142        | 0        |               | 0.011      | U |      |
| 3      | Hexachlorocyclopentadiene    |    |        |         | 237        | 0        |               | 0.013      | U |      |
| 3      | 2,4,6-Trichlorophenol        |    |        |         | 196        | 0        |               | 0.015      | U |      |
| 3      | 2,4,5-Trichlorophenol        |    |        |         | 196        | 0        |               | 0.018      | U |      |
| 3      | 2-Chloronaphthalene          |    |        |         | 162        | 0d       |               | 0.010      | U |      |
| 3      | 2-Nitroaniline               |    |        |         | 65         | 0d       |               | 0.017      | U |      |
| 3      | Acenaphthylene               |    |        |         | 152        | 0        |               | 0.016      | U |      |
| 3      | Dimethyl Phthalate           |    |        |         | 163        | 0d       |               | 0.017      | U |      |
| 3      | 2,6-Dinitrotoluene           |    |        |         | 165        | 0d       |               | 0.016      | U |      |
| 3      | Acenaphthene                 |    |        |         | 154        | 0d       |               | 0.014      | U |      |
| 3      | 3-Nitroaniline               |    |        |         | 138        | 0        |               | 0.18       | U |      |
| 3      | 2,4-Dinitrophenol            |    |        |         | 184        | 0        |               | 0.12       | U |      |
| 3      | Dibenzofuran                 |    |        |         | 168        | 0        |               | 0.012      | U |      |
| 3      | 4-Nitrophenol                |    |        |         | 109        | 0        |               | 0.15       | U |      |
| 3      | 2,4-Dinitrotoluene           |    |        |         | 165        | 0d       |               | 0.015      | U |      |
| 3      | 2,3,4,6-Tetrachlorophenol    |    |        |         | 232        | 0        |               | 0.046      | U |      |
| 3      | Fluorene                     |    |        |         | 166        | 0d       |               | 0.013      | U |      |
| 3      | 4-Chlorophenyl Phenyl Ether  |    |        |         | 204        | 0        |               | 0.016      | U |      |
| 3      | Diethyl Phthalate            |    |        |         | 149        | 0d       |               | 0.015      | U |      |
| 3      | 4-Nitroaniline               |    |        |         | 138        | 0        |               | 0.18       | U |      |
| 3      | 2-Methyl-4,6-dinitrophenol   |    |        |         | 198        | 0        |               | 0.15       | U |      |
| 3      | N-Nitrosodiphenylamine       |    |        |         | 169        | 0        |               | 0.018      | U |      |
| 3      | 1,2-Diphenylhydrazine        |    |        |         | 77         | 0d       |               | 0.015      | U |      |
| 4      | 4-Bromophenyl Phenyl Ether   |    |        |         | 248        | 0        |               | 0.013      | U |      |
| 4      | Hexachlorobenzene            |    |        |         | 284        | 0        |               | 0.015      | U |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



|                   |                                |                          |                  |
|-------------------|--------------------------------|--------------------------|------------------|
| <b>Data File:</b> | J:\MS07\DATA\061010\0610F007.D | <b>Instrument:</b>       | MS07             |
| <b>Acqu Date:</b> | 06/10/2010 18:58               | <b>Quant Date:</b>       | 06/11/2010 08:23 |
| <b>Run Type:</b>  | MB                             | <b>Vial:</b>             | 5                |
| <b>Lab ID:</b>    | KWG1005659-5                   | <b>Dilution:</b>         | 1.0              |
|                   |                                | <b>Soln Conc. Units:</b> | ug/ml            |

**Target Compounds**

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name                  | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|---------------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 4      | Pentachlorophenol               |       |        |         | 266        | 0        |               | 0.13       | U |      |
| 4      | Phenanthrene                    |       |        |         | 178        | 0d       |               | 0.010      | U |      |
| 4      | Anthracene                      |       |        |         | 178        | 0d       |               | 0.014      | U |      |
| 4      | Carbazole                       |       |        |         | 167        | 0d       |               | 0.012      | U |      |
| 4      | Di-n-butyl Phthalate            | 17.72 | -0.01  | 0.00    | 149        | 1426m    | 0.2000        | 0.013      | U |      |
| 4      | Fluoranthene                    | 18.65 | -0.01  | 0.00    | 202        | 766m     | 0.1400        | 0.012      | U |      |
| 5      | Benzidine                       |       |        |         | 184        | 0d       |               | 0.42       | U |      |
| 5      | Pyrene                          | 19.01 | -0.01  | 0.00    | 202        | 815      | 0.1500        | 0.014      | U |      |
| 5      | Butyl Benzyl Phthalate          |       |        |         | 149        | 0d       |               | 0.017      | U |      |
| 5      | 3,3'-Dichlorobenzidine          |       |        |         | 252        | 0        |               | 0.027      | U |      |
| 5      | Benz(a)anthracene               |       |        |         | 228        | 0d       |               | 0.013      | U |      |
| 5      | Chrysene                        |       |        |         | 228        | 0d       |               | 0.012      | U |      |
| 5      | Bis(2-ethylhexyl) Phthalate     |       |        |         | 149        | 0d       |               | 0.019      | U |      |
| 6      | Di-n-octyl Phthalate            |       |        |         | 149        | 0d       |               | 0.024      | U |      |
| 6      | Benzo(b)fluoranthene            |       |        |         | 252        | 0        |               | 0.018      | U |      |
| 6      | Benzo(k)fluoranthene            |       |        |         | 252        | 0        |               | 0.020      | U |      |
| 6      | Benzo(a)pyrene                  |       |        |         | 252        | 0d       |               | 0.020      | U |      |
| 6      | Indeno(1,2,3-cd)pyrene          |       |        |         | 276        | 0        |               | 0.039      | U |      |
| 6      | Dibenz(a,h)anthracene           |       |        |         | 278        | 0        |               | 0.028      | U |      |
| 6      | Benzo(g,h,i)perylene            |       |        |         | 276        | 0        |               | 0.021      | U |      |
|        | Hexachlorocyclohexane           |       |        |         | 0          | 0        |               | 0.49       | U | NR   |
|        | 1,2,3-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | 1,2,3,4-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | 1,2,3,5-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | 1,3,5-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | Acrylamide                      |       |        |         | 0          | 0        |               | 37         | U | NR   |
|        | Diisobutyl Phthalate            |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | OPMO                            |       |        |         | 0          | 0        |               | 1.5        | U | NR   |
|        | 1-Methylnaphthalene             |       |        |         | 0          | 0        |               | 0.24       | U | NR   |
|        | HPMO                            |       |        |         | 0          | 0        |               | 1.5        | U | NR   |
|        | 2,3,7,8-Tetrachlorodibenzo-p-di |       |        |         | 0          | 0        |               | 0.49       | U | NR   |

Prep Amount: 40.82 g                      Dilution: 1.0  
 Prep Final Vol: 1 mL                      Unit Factor: 1  
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F007.D  
 Acq On : 10 Jun 2010 6:58 pm  
 Sample : KQ5080-5 MB  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:03 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 85541    | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.43 | 136  | 294990   | 40.00 | ug/ml | -0.02    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 165284   | 40.00 | ug/ml | -0.02    |
| 58) Phenanthrene-d10      | 16.69 | 188  | 233584   | 40.00 | ug/ml | -0.02    |
| 68) Chrysene-d12          | 21.11 | 240  | 198229   | 40.00 | ug/ml | -0.02    |
| 77) Perylene-d12          | 24.29 | 264  | 158955   | 40.00 | ug/ml | -0.02    |

System Monitoring Compounds

|                          |         |       |          |          |       |         |
|--------------------------|---------|-------|----------|----------|-------|---------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 191966   | 84.41    | ug/ml | -0.03   |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 56.27%  |
| 7) Phenol-d6             | 8.84    | 99    | 263437   | 83.05    | ug/ml | -0.03   |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 55.37%  |
| 19) Nitrobenzene-d5      | 10.26   | 82    | 167894   | 54.19    | ug/ml | -0.03   |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 54.19%  |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 358985   | 66.25    | ug/ml | -0.02   |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 66.25%  |
| 59) 2,4,6-Tribromophenol | 15.58   | 330   | 91899    | 97.07    | ug/ml | -0.02   |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 64.71%  |
| 71) Terphenyl-d14        | 19.31   | 244   | 303656   | 100.04   | ug/ml | -0.02   |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 100.04% |

Target Compounds

| Target Compounds         | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------|-------|------|----------|------|-------|--------|
| 66) Di-n-butyl Phthalate | 17.72 | 149  | 1426m    | 0.20 | ug/ml |        |
| 67) Fluoranthene         | 18.65 | 202  | 766m     | 0.14 | ug/ml |        |
| 70) Pyrene               | 19.01 | 202  | 815      | 0.15 | ug/ml | 87     |

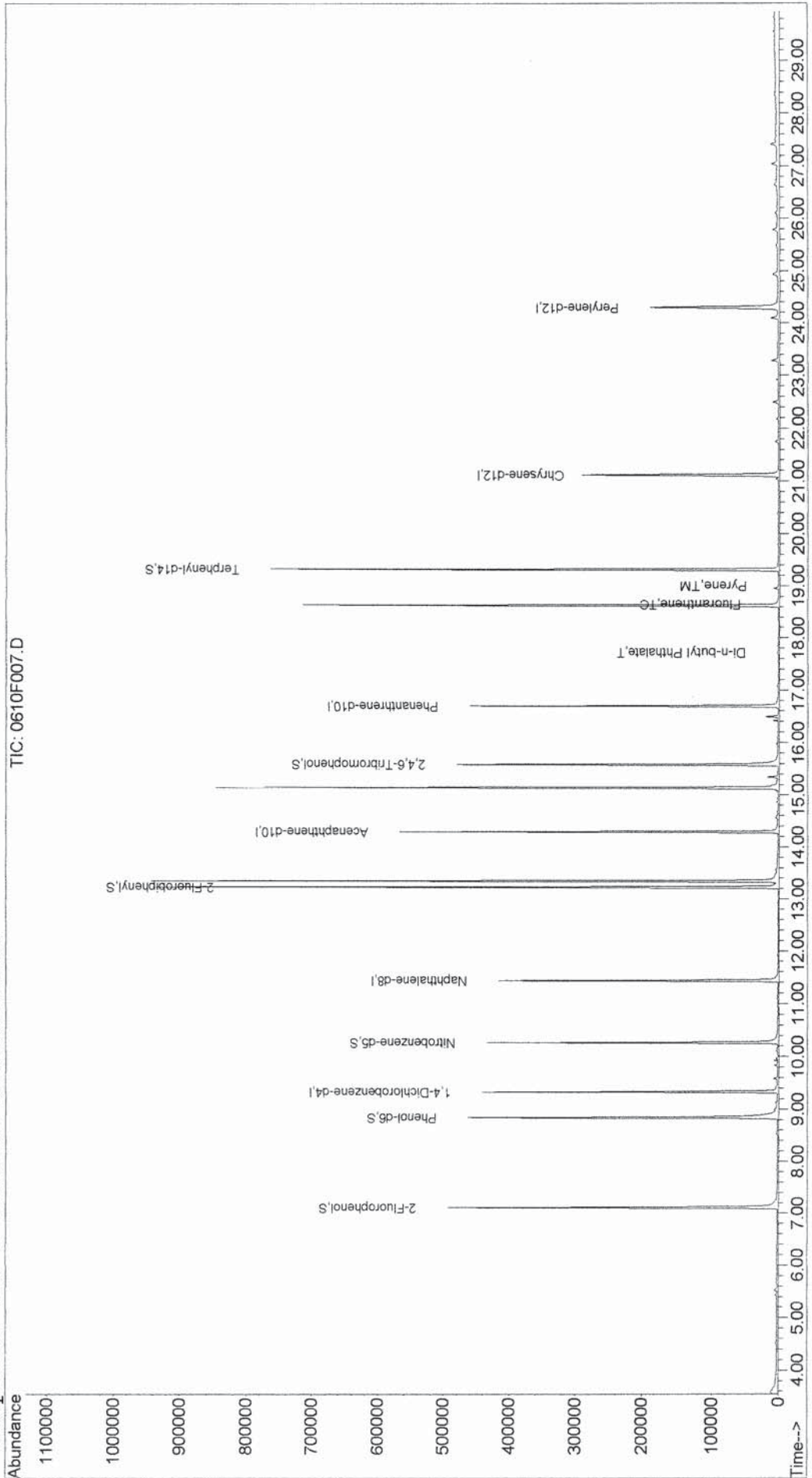
Data File : J:\MS07\DATA\061010\0610F007.D  
 Acq On : 10 Jun 2010 6:58 pm  
 Sample : KQ5080-5 MB  
 Misc :

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

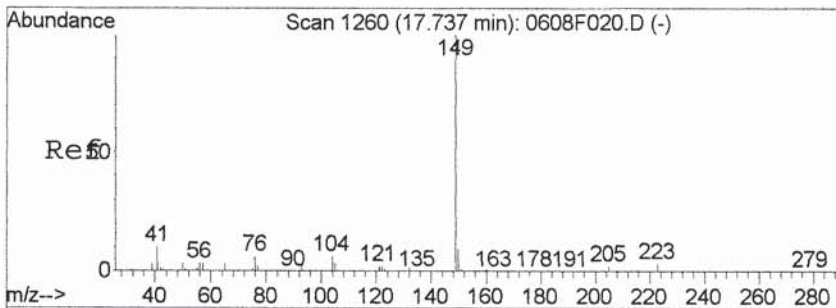
MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:23 2010

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration

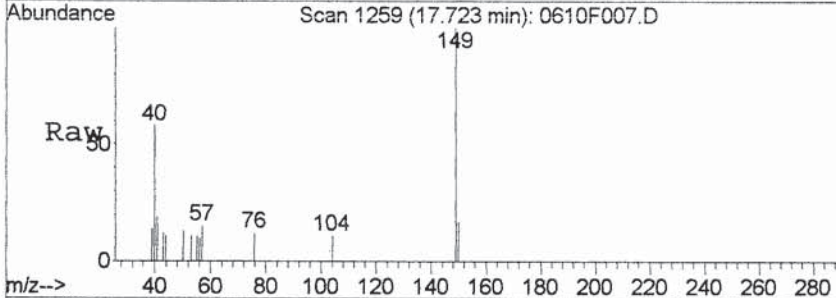




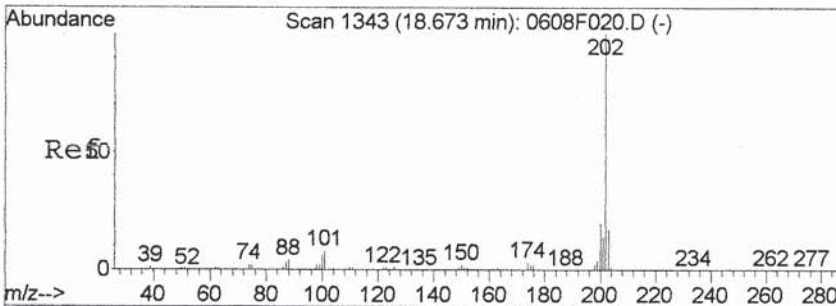
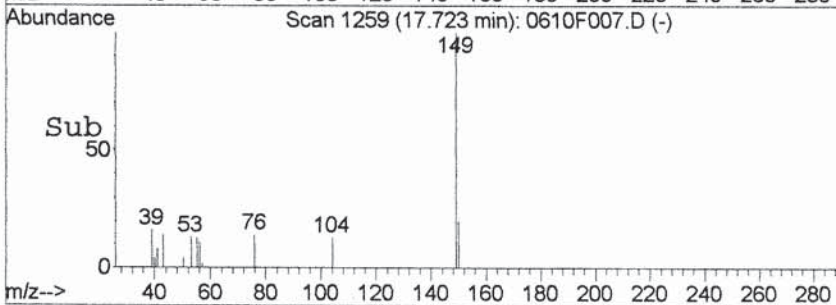
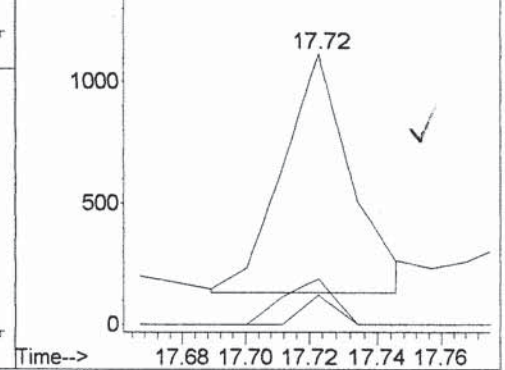


#66  
 Di-n-butyl Phthalate  
 Concen: 0.20 ug/ml m  
 RT: 17.72 min Scan# 1259  
 Delta R.T. -0.02 min  
 Lab File: 0610F007.D  
 Acq: 10 Jun 2010 6:58 pm

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   | 1426 |       |       |
| 150     | 16.9  |      | 0.0   | 39.1  |
| 104     | 10.9  |      | 0.0   | 35.2  |

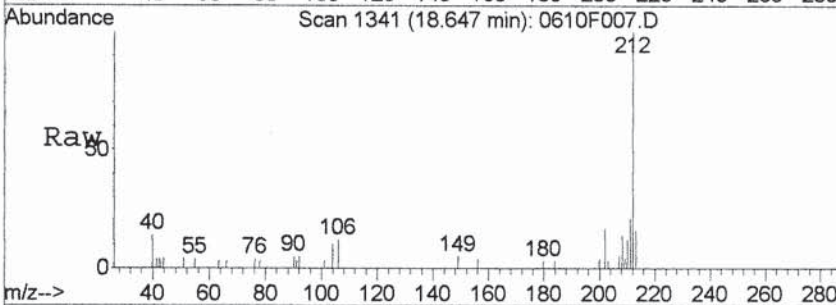


Abundance Ion 149.00 (148.50 to 149.50): 0610F0  
 1500 Ion 150.00 (149.50 to 150.50): 0610F0  
 Ion 104.00 (103.50 to 104.50): 0610F0

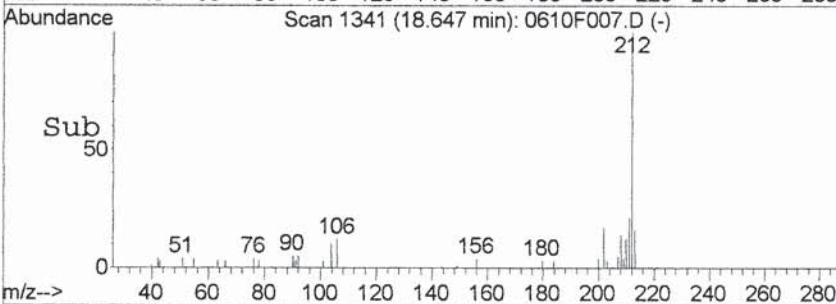
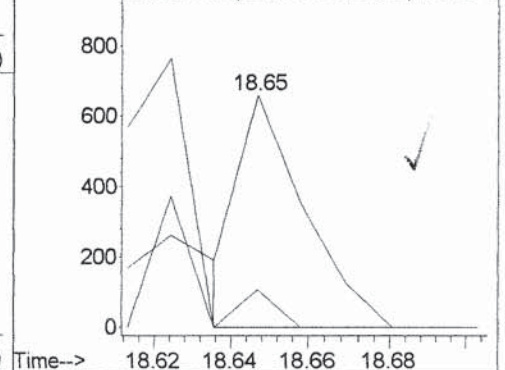


#67  
 Fluoranthene  
 Concen: 0.14 ug/ml m  
 RT: 18.65 min Scan# 1341  
 Delta R.T. -0.02 min  
 Lab File: 0610F007.D  
 Acq: 10 Jun 2010 6:58 pm

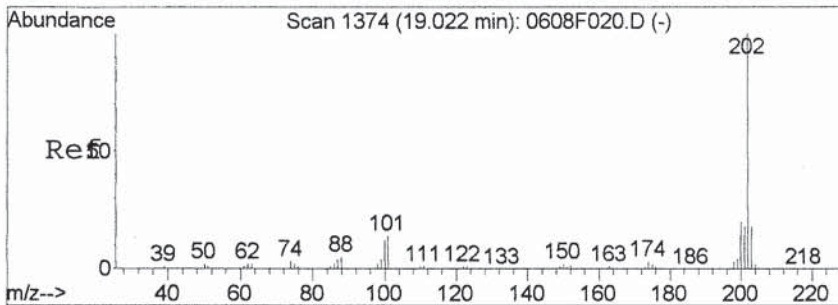
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 766  |       |       |
| 101     | 16.2  |      | 0.0   | 43.3  |
| 203     | 16.2  |      | 0.0   | 47.4  |



Abundance Ion 202.00 (201.50 to 202.50): 0610F0  
 1000 Ion 101.00 (100.50 to 101.50): 0610F0  
 Ion 203.00 (202.50 to 203.50): 0610F0

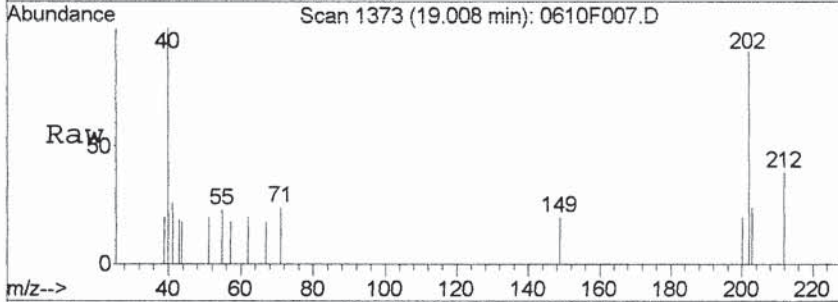




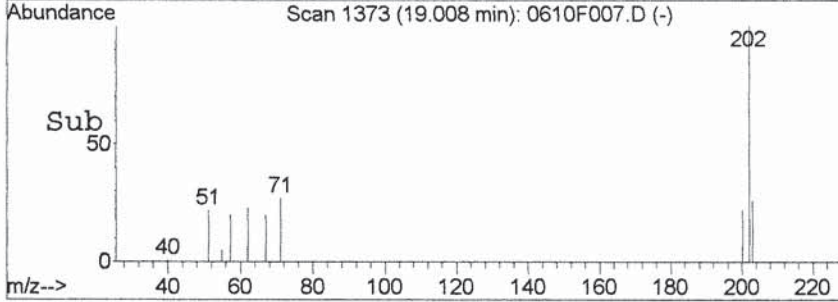
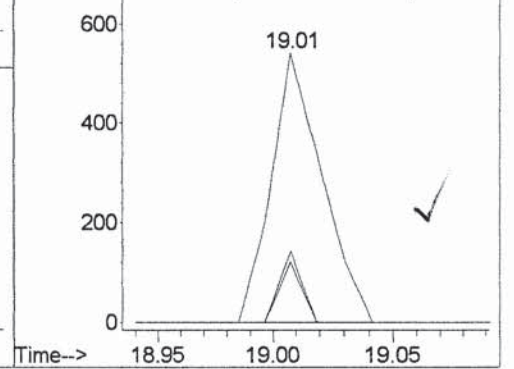


#70  
 Pyrene  
 Concen: 0.15 ug/ml  
 RT: 19.01 min Scan# 1373  
 Delta R.T. -0.02 min  
 Lab File: 0610F007.D  
 Acq: 10 Jun 2010 6:58 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.3  | 0.0   | 49.7  |
| 203     | 26.4  | 0.0   | 46.9  |



Abundance Ion 202.00 (201.50 to 202.50): 0610F0  
 Ion 200.00 (199.50 to 200.50): 0610F0  
 Ion 203.00 (202.50 to 203.50): 0610F0



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QC  
 Lab Code: K1005175-012  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | ND     | U | 1.8  | 0.026  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Aniline                      | ND     | U | 0.87 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | ND     | U | 0.29 | 0.012  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenol                       | ND     | U | 0.29 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chlorophenol               | ND     | U | 0.29 | 0.0099 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | ND     | U | 0.29 | 0.019  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | ND     | U | 0.29 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | ND     | U | 0.29 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzyl Alcohol               | ND     | U | 0.29 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | ND     | U | 0.29 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylphenol               | ND     | U | 0.29 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachloroethane             | ND     | U | 0.29 | 0.022  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | ND     | U | 0.29 | 0.020  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Methylphenol†              | ND     | U | 0.29 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Nitrobenzene                 | ND     | U | 0.29 | 0.027  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Isophorone                   | ND     | U | 0.29 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitrophenol                | ND     | U | 0.29 | 0.014  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | ND     | U | 0.29 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | ND     | U | 0.29 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | ND     | U | 0.29 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzoic Acid                 | ND     | U | 1.8  | 0.14   | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | ND     | U | 0.29 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Naphthalene                  | ND     | U | 0.29 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloroaniline              | ND     | U | 0.29 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobutadiene          | ND     | U | 0.29 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | ND     | U | 0.29 | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | ND     | U | 0.29 | 0.011  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | ND     | U | 0.29 | 0.013  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | ND     | U | 0.29 | 0.015  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | ND     | U | 0.29 | 0.018  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | ND     | U | 0.29 | 0.010  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Nitroaniline               | ND     | U | 1.8  | 0.017  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthylene               | ND     | U | 0.29 | 0.016  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QC  
 Lab Code: K1005175-012  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | ND     | U | 0.29 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | ND     | U | 0.29 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Acenaphthene                | ND     | U | 0.29 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3-Nitroaniline              | ND     | U | 1.8  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | ND     | U | 1.8  | 0.12  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenzofuran                | ND     | U | 0.29 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitrophenol               | ND     | U | 1.8  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | ND     | U | 0.29 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluorene                    | ND     | U | 0.29 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | ND     | U | 0.29 | 0.016 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Diethyl Phthalate           | ND     | U | 0.29 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Nitroaniline              | ND     | U | 1.8  | 0.18  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | ND     | U | 1.8  | 0.15  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | ND     | U | 0.29 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | ND     | U | 0.29 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Hexachlorobenzene           | ND     | U | 0.29 | 0.015 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pentachlorophenol           | ND     | U | 1.8  | 0.13  | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Phenanthrene                | ND     | U | 0.29 | 0.010 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Anthracene                  | ND     | U | 0.29 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | ND     | U | 0.29 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Fluoranthene                | ND     | U | 0.29 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Pyrene                      | ND     | U | 0.29 | 0.014 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | ND     | U | 0.29 | 0.017 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | ND     | U | 1.8  | 0.027 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benz(a)anthracene           | ND     | U | 0.29 | 0.013 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Chrysene                    | ND     | U | 0.29 | 0.012 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | ND     | U | 0.29 | 0.019 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | ND     | U | 0.29 | 0.024 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | ND     | U | 0.29 | 0.018 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | ND     | U | 0.29 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Benzo(a)pyrene              | ND     | U | 0.29 | 0.020 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | ND     | U | 0.29 | 0.039 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | ND     | U | 0.29 | 0.028 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

Comments: \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglur - Kronquist/0907194.000.0601  
**Sample Matrix:** Sediment

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Batch QC **Units:** mg/Kg  
**Lab Code:** K1005175-012 **Basis:** Dry  
**Extraction Method:** EPA 3541 **Level:** Low  
**Analysis Method:** 8270C

| Analyte Name         | Result Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|----------|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | ND U     | 0.29 | 0.021 | 1               | 06/01/10       | 06/11/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 56   | 20-83          | 06/11/10      | Acceptable |
| Phenol-d6            | 58   | 23-90          | 06/11/10      | Acceptable |
| Nitrobenzene-d5      | 53   | 29-100         | 06/11/10      | Acceptable |
| 2-Fluorobiphenyl     | 60   | 32-104         | 06/11/10      | Acceptable |
| 2,4,6-Tribromophenol | 72   | 20-123         | 06/11/10      | Acceptable |
| Terphenyl-d14        | 90   | 37-133         | 06/11/10      | Acceptable |

† Analyte Comments

4-Methylphenol                      This analyte cannot be separated from 3-Methylphenol.

Comments: \_\_\_\_\_

## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F015.D  
**Lab ID:** K1005175-012  
**RunType:** SMPL  
**Matrix:** SEDIMENT

**Date Acquired:** 06/11/2010 00:19  
**Date Quantitated:** 06/11/2010 11:48  
**Batch ID:** KWG1005687  
**Analysis Method:** 8270C  
**ListJoinID:** LJ11610

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| Preparation Holding Time              | NA     | NA        | NA         | x    |      |
| Pre-Preparation Holding Time          | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         | x    |      |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         | x    |      |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Method Blank                          | NA     | NA        | NA         | x    |      |
| MB Surrogate Recovery                 | NA     | NA        | NA         | x    |      |
| Lab Control Spike                     | NA     | NA        | NA         | x    |      |
| Duplicate Lab Control Spike           | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

5244  
 5282  
 5284  
 5353

Primary Review:           A 6-11-10            
 Secondary Review:           LB 6-11-10

# Quantitation Report

|                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| Bottle ID:           | Tier:                    | Matrix:                  |
| Prod Code: 8270C SVO | Collect Date: 05/18/2010 | Receive Date: 05/20/2010 |

|                          |                       |                        |
|--------------------------|-----------------------|------------------------|
| Analysis Lot: KWG1005687 | Prep Lot: KWG1005659  | Report Group: K1005175 |
| Analysis Method: 8270C   | Prep Method: EPA 3541 |                        |
| Prep Ref: 918258         | Prep Date: 06/01/2010 |                        |

|   |                            |
|---|----------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525    |
| Title: Semi-Volatile Organic Compounds by GC/MS   | Report List ID: LJ11610    |
| Tune Ref: J:\MS07\DATA\061010\0610F012.D          | Method ID: MJ250           |
| MB Ref: J:\MS07\DATA\061010\0610F007.D            | Quant based on Report List |

|   |                              |
|---|------------------------------|
| Data File: J:\MS07\DATA\061010\0610F015.D | Instrument: MS07             |
| Acqu Date: 06/11/2010 00:19               | Quant Date: 06/11/2010 11:48 |
| Run Type: SMPL                            | Vial: 12                     |
| Lab ID: K1005175-012                      | Dilution: 1.0                |
|   | Soln Conc. Units: ug/ml      |

## Internal Standard Compounds

| IS Ref | Parameter Name | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|----------------|-------|--------|------------|----------|---------------|---------------|
| 5      | Chrysene-d12   | 21.11 | -0.02  | 240        | 218908   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 5      | Terphenyl-d14  | 19.30 | -0.01  | 0.00    | 244        | 302898   | 90.37         | 90   | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name              | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 5      | Bis(2-ethylhexyl) Phthalate | 21.29 | -0.01  | 0.00    | 149        | 688m     | 0.1500        | 0.019      | U |      |

Final Conc. Units: mg/Kg Dry Weight

Prep Amount: 40.40 g                      Dilution: 1.0  
 Prep Final Vol: 1 mL                      Unit Factor: 1  
 Solids: 86.0 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F015.D  
 Acq On : 11 Jun 2010 12:19 am  
 Sample : K1005175-12  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:42:43 2010

Vial: 12  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 11:42:24 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 82676    | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.43 | 136  | 292699   | 40.00 | ug/ml | -0.03    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 168356   | 40.00 | ug/ml | -0.02    |
| 58) Phenanthrene-d10      | 16.69 | 188  | 245334   | 40.00 | ug/ml | -0.02    |
| 68) Chrysene-d12          | 21.11 | 240  | 218908   | 40.00 | ug/ml | -0.03    |
| 77) Perylene-d12          | 24.30 | 264  | 176848   | 40.00 | ug/ml | -0.02    |

System Monitoring Compounds

|                          |         |                |            |        |       |       |
|--------------------------|---------|----------------|------------|--------|-------|-------|
| 4) 2-Fluorophenol        | 7.10    | 112            | 186172     | 84.70  | ug/ml | -0.04 |
| Spiked Amount            | 150.000 | Range 21 - 100 | Recovery = | 56.47% |       |       |
| 7) Phenol-d6             | 8.83    | 99             | 265392     | 86.57  | ug/ml | -0.04 |
| Spiked Amount            | 150.000 | Range 10 - 94  | Recovery = | 57.71% |       |       |
| 19) Nitrobenzene-d5      | 10.25   | 82             | 158916     | 53.07  | ug/ml | -0.04 |
| Spiked Amount            | 100.000 | Range 35 - 114 | Recovery = | 53.07% |       |       |
| 38) 2-Fluorobiphenyl     | 13.22   | 172            | 330311     | 59.85  | ug/ml | -0.03 |
| Spiked Amount            | 100.000 | Range 43 - 116 | Recovery = | 59.85% |       |       |
| 59) 2,4,6-Tribromophenol | 15.57   | 330            | 107297     | 107.90 | ug/ml | -0.03 |
| Spiked Amount            | 150.000 | Range 10 - 123 | Recovery = | 71.93% |       |       |
| 71) Terphenyl-d14        | 19.30   | 244            | 302898     | 90.37  | ug/ml | -0.03 |
| Spiked Amount            | 100.000 | Range 33 - 141 | Recovery = | 90.37% |       |       |

Target Compounds

|                                | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 8) Phenol                      | 8.86  | 94   | 740m     | 0.24 | ug/ml |        |
| 53) Diethyl Phthalate          | 15.05 | 149  | 710m     | 0.13 | ug/ml |        |
| 65) Carbazole                  | 17.11 | 167  | 825      | 0.15 | ug/ml | 81     |
| 66) Di-n-butyl Phthalate       | 17.71 | 149  | 2895m    | 0.39 | ug/ml |        |
| 67) Fluoranthene               | 18.65 | 202  | 1401m    | 0.24 | ug/ml |        |
| 70) Pyrene                     | 19.00 | 202  | 1779     | 0.30 | ug/ml | 92     |
| 74) Benz(a)anthracene          | 21.09 | 228  | 1191     | 0.23 | ug/ml | 70     |
| 75) Chrysene                   | 21.16 | 228  | 342m     | 0.07 | ug/ml |        |
| 76) Bis(2-ethylhexyl) Phthalat | 21.29 | 149  | 688m     | 0.15 | ug/ml |        |

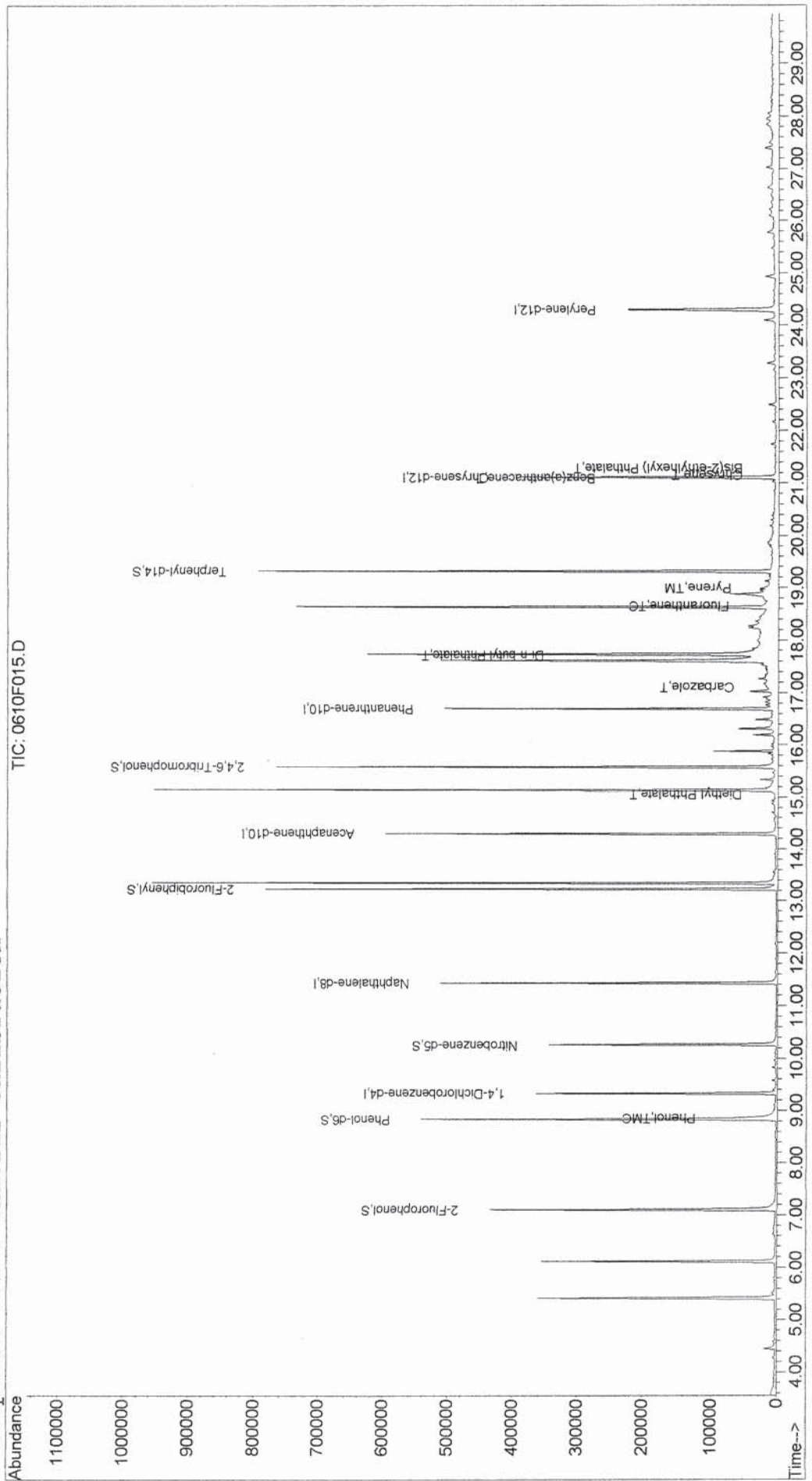
Data File : J:\MS07\DATA\061010\0610F015.D  
 Acq On : 11 Jun 2010 12:19 am  
 Sample : K1005175-12  
 Misc :

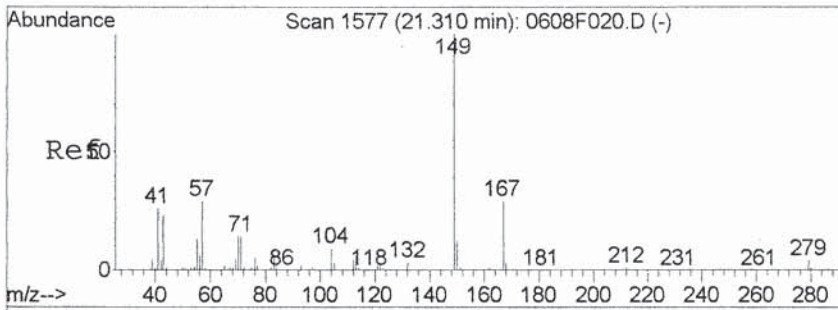
Vial: 12  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:48 2010

Quant Results File: 0602BNC7.RES

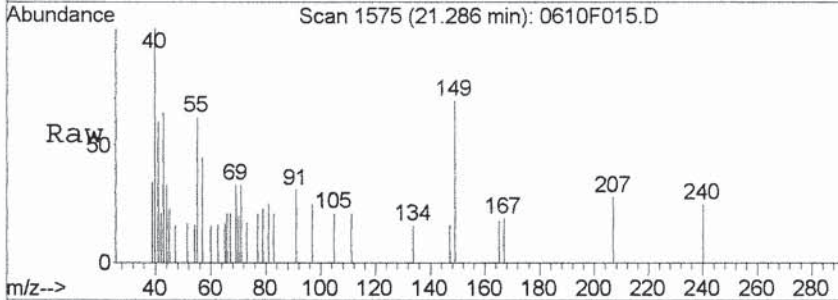
Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 11:42:24 2010  
 Response via : Initial Calibration



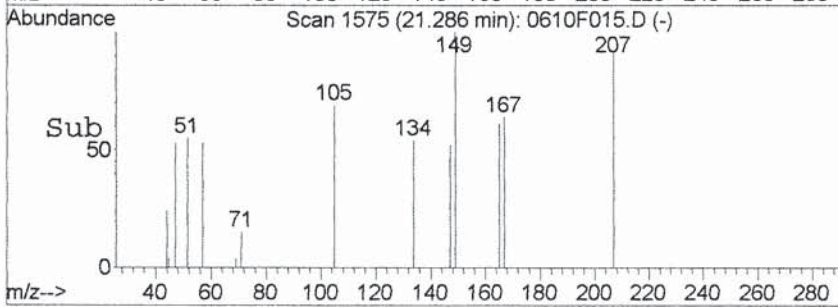
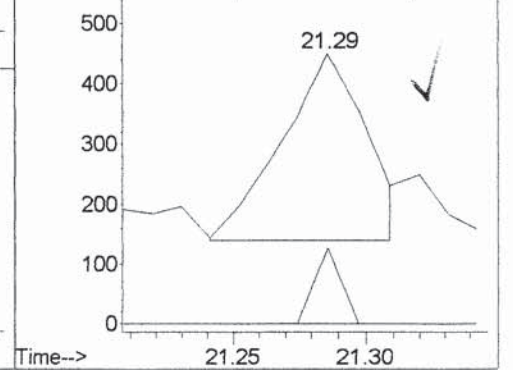


#76  
 Bis(2-ethylhexyl) Phthalate  
 Concen: 0.15 ug/ml m  
 RT: 21.29 min Scan# 1575  
 Delta R.T. -0.03 min  
 Lab File: 0610F015.D  
 Acq: 11 Jun 2010 12:19 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   | 688  |       |       |
| 167     | 28.2  |      | 0.0   | 59.2  |
| 279     | 0.0   |      | 0.0   | 34.2  |



Abundance Ion 149.00 (148.50 to 149.50): 0610F0  
 Ion 167.00 (166.50 to 167.50): 0610F0  
 Ion 279.00 (278.50 to 279.50): 0610F0





**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Sediment

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Batch QCMS  
**Lab Code:** KWG1005659-1  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | 1.63   | J | 1.8  | 0.026  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Aniline                      | 1.63   |   | 0.87 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | 1.82   |   | 0.29 | 0.012  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenol                       | 1.85   |   | 0.29 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chlorophenol               | 1.87   |   | 0.29 | 0.0099 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | 1.86   |   | 0.29 | 0.019  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | 1.91   |   | 0.29 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | 1.93   |   | 0.29 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzyl Alcohol               | 1.91   |   | 0.29 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | 1.68   |   | 0.29 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylphenol               | 1.96   |   | 0.29 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachloroethane             | 1.85   |   | 0.29 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | 1.92   |   | 0.29 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Methylphenol†              | 1.98   |   | 0.29 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Nitrobenzene                 | 1.86   |   | 0.29 | 0.027  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Isophorone                   | 1.83   |   | 0.29 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitrophenol                | 2.03   |   | 0.29 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | 1.63   |   | 0.29 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | 2.02   |   | 0.29 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | 2.07   |   | 0.29 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzoic Acid                 | 0.733  | J | 1.8  | 0.14   | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | 1.98   |   | 0.29 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Naphthalene                  | 2.06   |   | 0.29 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloroaniline              | 1.87   |   | 0.29 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobutadiene          | 1.97   |   | 0.29 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | 2.09   |   | 0.29 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | 2.19   |   | 0.29 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | 1.14   |   | 0.29 | 0.013  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | 2.13   |   | 0.29 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | 2.11   |   | 0.29 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | 2.15   |   | 0.29 | 0.010  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitroaniline               | 2.12   |   | 1.8  | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthylene               | 2.27   |   | 0.29 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QCMS  
 Lab Code: KWG1005659-1  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | 2.34   |   | 0.29 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | 2.29   |   | 0.29 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | 2.19   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | 1.93   |   | 1.8  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | 1.61   | J | 1.8  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | 2.29   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | 2.19   |   | 1.8  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | 2.24   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | 2.34   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | 2.14   |   | 0.29 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | 2.43   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | 2.21   |   | 1.8  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | 2.07   |   | 1.8  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | 2.12   |   | 0.29 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | 2.31   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | 2.31   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | 1.85   |   | 1.8  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | 2.30   |   | 0.29 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | 2.07   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | 2.16   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | 2.42   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | 1.94   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | 2.07   |   | 0.29 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | 1.53   | J | 1.8  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | 2.17   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | 2.24   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 2.23   |   | 0.29 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | 2.15   |   | 0.29 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | 2.27   |   | 0.29 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | 2.06   |   | 0.29 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | 2.28   |   | 0.29 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | 2.10   |   | 0.29 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | 2.13   |   | 0.29 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Sediment

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Batch QCMS  
**Lab Code:** KWG1005659-1  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | 1.98   |   | 0.29 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 59   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 64   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 65   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 68   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 78   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 78   | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F010.D  
**Lab ID:** KWG1005659-1 -- K1005175-012MS  
**RunType:** MS  
**Matrix:** SEDIMENT

**Date Acquired:** 06/10/2010 20:58  
**Date Quantitated:** 06/11/2010 08:25  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         |      | x    |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

Batch Qc:  
 K5244  
 K5282  
 K5284  
 K5353

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | NT                |
| Continuing Calibration Recovery | Benzidine    | -35.0  | NA        | 30         | 2                 |

Primary Review: M 6-11-10  
 Secondary Review: LB 6/11/10

# Quantitation Report

|   |                              |                         |            |
|---|------------------------------|-------------------------|------------|
| Bottle ID:  | Tier:                        | Matrix:                 | SEDIMENT   |
| Prod Code: 8270C SVO                              | Collect Date:                | Receive Date:           | 06/10/2010 |
| Analysis Lot: KWG1005663                          | Prep Lot: KWG1005659         | Report Group:           |            |
| Analysis Method: 8270C                            | Prep Method: EPA 3541        |                         |            |
| Prep Ref: 918269                                  | Prep Date: 06/01/2010        |                         |            |
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M |                              | Calibration ID: CAL9525 |            |
| Title:  |                              | Method ID: MJ250        |            |
| Tune Ref: J:\MS07\DATA\061010\0610F001.D          |                              | Quant based on Method   |            |
| MB Ref: J:\MS07\DATA\061010\0610F007.D            |                              |                         |            |
| Data File: J:\MS07\DATA\061010\0610F010.D         | Instrument: MS07             |                         |            |
| Acqu Date: 06/10/2010 20:58                       | Quant Date: 06/11/2010 08:25 | Vial: 8                 |            |
| Run Type: MS                                      |                              | Dilution: 1.0           |            |
| Lab ID: KWG1005659-1 -- K1005175-012MS            |                              | Soln Conc. Units: ug/ml |            |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 86297    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.43 | -0.01  | 136        | 318991   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.30 | 0.01   | 164        | 167887   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.70 | 0.00   | 188        | 221940   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.11 | -0.02  | 240        | 245359   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.30 | -0.01  | 264        | 200032   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  | 0.00   | 0.00    | 112        | 203599   | 88.74         | 59   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.84  | -0.02  | 0.00    | 99         | 309459   | 96.71         | 64   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.26 | -0.02  | 0.00    | 82         | 204634   | 65.47         | 65   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.23 | 0.00   | 0.00    | 172        | 376700   | 68.44         | 68   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.58 | -0.01  | 0.00    | 330        | 105545   | 117.33        | 78   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.31 | -0.01  | 0.00    | 244        | 293367   | 78.09         | 78   | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.11 | -0.02  | 0.00    | 42         | 116607m  | 56.55         | 1.63       | J |      |
| 1      | Pyridine                 | 4.15 | -0.01  | 0.00    | 79         | 246043m  | 84.21         | 2.43       |   |      |
| 1      | Aniline                  | 8.80 |        | 0.00    | 93         | 182781   | 56.51         | 1.63       |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.93 | -0.02  | 0.00    | 93         | 164426   | 63.01         | 1.82       |   |      |
| 1      | Phenol                   | 8.86 | -0.02  | 0.00    | 94         | 210506   | 64.23         | 1.85       |   |      |
| 1      | 2-Chlorophenol           | 8.99 | -0.02  | 0.00    | 128        | 183806   | 65.05         | 1.87       |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.22 | -0.01  | 0.00    | 146        | 193723   | 64.64         | 1.86       |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.36 | -0.01  | 0.00    | 146        | 201855   | 66.13         | 1.91       |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.60 | -0.01  | 0.00    | 146        | 194000   | 67.14         | 1.93       |   |      |
| 1      | Benzyl Alcohol           | 9.62 | -0.02  | 0.00    | 108        | 114956   | 66.24         | 1.91       |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



|            |                                |                   |                  |
|------------|--------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F010.D | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 20:58               | Quant Date:       | 06/11/2010 08:25 |
| Run Type:  | MS                             | Vial:             | 8                |
| Lab ID:    | KWG1005659-1 -- K1005175-012MS | Dilution:         | 1.0              |
|            |                                | Soln Conc. Units: | ug/ml            |

| Target Compounds |                              | Final Conc. Units: |        | mg/Kg Dry Weight |            |          |               |            |   |      |
|------------------|------------------------------|--------------------|--------|------------------|------------|----------|---------------|------------|---|------|
| IS Ref           | Parameter Name               | RT                 | RT Dev | RRT Dev          | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
| 1                | Bis(2-chloroisopropyl) Ether | 9.84               | -0.01  | 0.00             | 45         | 252710   | 58.37         | 1.68       |   |      |
| 1                | 2-Methylphenol               | 9.86               |        | 0.00             | 107        | 144075   | 67.90         | 1.96       |   |      |
| 1                | Hexachloroethane             | 10.16              | -0.01  | 0.00             | 117        | 88940    | 64.04         | 1.85       |   |      |
| 1                | N-Nitrosodi-n-propylamine    | 10.07              | -0.02  | 0.00             | 70         | 141215   | 66.49         | 1.92       |   |      |
| 1                | 4-Methylphenol               | 10.11              | -0.02  | 0.00             | 107        | 221033   | 68.59         | 1.98       |   |      |
| 1                | Nitrobenzene                 | 10.30              | -0.01  | 0.00             | 77         | 189797   | 64.55         | 1.86       |   |      |
| 2                | Isophorone                   | 10.71              | -0.02  | 0.00             | 82         | 365457   | 63.51         | 1.83       |   |      |
| 2                | 2-Nitrophenol                | 10.82              | -0.01  | 0.00             | 139        | 111483   | 70.31         | 2.03       |   |      |
| 2                | 2,4-Dimethylphenol           | 10.97              | -0.01  | 0.00             | 122        | 119660   | 56.44         | 1.63       |   |      |
| 2                | Bis(2-chloroethoxy)methane   | 11.11              |        | 0.00             | 93         | 226767   | 70.15         | 2.02       |   |      |
| 2                | 2,4-Dichlorophenol           | 11.25              | -0.01  | 0.00             | 162        | 172574   | 71.75         | 2.07       |   |      |
| 2                | Benzoic Acid                 | 11.21              | -0.12  | -0.01            | 122        | 46248    | 25.45         | 0.733      | J |      |
| 2                | 1,2,4-Trichlorobenzene       | 11.35              | -0.01  | 0.00             | 180        | 175879   | 68.88         | 1.98       |   |      |
| 2                | Naphthalene                  | 11.47              |        | 0.00             | 128        | 546166   | 71.36         | 2.06       |   |      |
| 2                | 4-Chloroaniline              | 11.59              | -0.02  | 0.00             | 127        | 218910   | 64.83         | 1.87       |   |      |
| 2                | Hexachlorobutadiene          | 11.69              | -0.01  | 0.00             | 225        | 110605   | 68.27         | 1.97       |   |      |
| 2                | 4-Chloro-3-methylphenol      | 12.44              | -0.01  | 0.00             | 107        | 181945   | 72.47         | 2.09       |   |      |
| 2                | 2-Methylnaphthalene          | 12.61              |        | 0.00             | 142        | 370108   | 76.00         | 2.19       |   |      |
| 3                | Hexachlorocyclopentadiene    | 12.88              | 0.01   | 0.00             | 237        | 61431    | 39.66         | 1.14       |   |      |
| 3                | 2,4,6-Trichlorophenol        | 13.09              | -0.02  | 0.00             | 196        | 127924   | 73.86         | 2.13       |   |      |
| 3                | 2,4,5-Trichlorophenol        | 13.17              | -0.01  | 0.00             | 196        | 141002   | 73.06         | 2.11       |   |      |
| 3                | 2-Chloronaphthalene          | 13.39              | -0.01  | 0.00             | 162        | 361606   | 74.47         | 2.15       |   |      |
| 3                | 2-Nitroaniline               | 13.60              |        | 0.00             | 65         | 115039   | 73.65         | 2.12       |   |      |
| 3                | Acenaphthylene               | 14.06              | -0.01  | 0.00             | 152        | 590008   | 78.88         | 2.27       |   |      |
| 3                | Dimethyl Phthalate           | 13.91              | -0.02  | 0.00             | 163        | 463253   | 81.17         | 2.34       |   |      |
| 3                | 2,6-Dinitrotoluene           | 14.00              | -0.02  | 0.00             | 165        | 102668   | 79.38         | 2.29       |   |      |
| 3                | Acenaphthene                 | 14.34              | -0.02  | 0.00             | 154        | 325085   | 76.15         | 2.19       |   |      |
| 3                | 3-Nitroaniline               | 14.27              | -0.02  | 0.00             | 138        | 91035    | 66.90         | 1.93       |   |      |
| 3                | 2,4-Dinitrophenol            | 14.44              | -0.02  | 0.00             | 184        | 41845    | 55.76         | 1.61       | J |      |
| 3                | Dibenzofuran                 | 14.63              | -0.01  | 0.00             | 168        | 534457   | 79.40         | 2.29       |   |      |
| 3                | 4-Nitrophenol                | 14.63              |        | 0.00             | 109        | 55920    | 75.89         | 2.19       |   |      |
| 3                | 2,4-Dinitrotoluene           | 14.66              |        | 0.00             | 165        | 127381   | 77.71         | 2.24       |   |      |
| 3                | 2,3,4,6-Tetrachlorophenol    | 14.86              | -0.01  | 0.00             | 232        | 100147   | 71.17         | 2.05       |   |      |
| 3                | Fluorene                     | 15.19              |        | 0.00             | 166        | 409935   | 81.27         | 2.34       |   |      |
| 3                | 4-Chlorophenyl Phenyl Ether  | 15.21              | -0.01  | 0.00             | 204        | 191562   | 74.18         | 2.14       |   |      |
| 3                | Diethyl Phthalate            | 15.07              | -0.01  | 0.00             | 149        | 466034   | 84.46         | 2.43       |   |      |
| 3                | 4-Nitroaniline               | 15.26              | -0.02  | 0.00             | 138        | 90312    | 76.67         | 2.21       |   |      |
| 3                | 2-Methyl-4,6-dinitrophenol   | 15.31              | -0.02  | 0.00             | 198        | 64183    | 71.99         | 2.07       |   |      |
| 3                | N-Nitrosodiphenylamine       | 15.41              | -0.01  | 0.00             | 169        | 247055   | 73.46         | 2.12       |   |      |
| 3                | 1,2-Diphenylhydrazine        | 15.47              |        | 0.00             | 77         | 413542   | 72.92         | 2.10       |   |      |
| 4                | 4-Bromophenyl Phenyl Ether   | 16.00              |        | 0.00             | 248        | 107050   | 80.00         | 2.31       |   |      |
| 4                | Hexachlorobenzene            | 16.08              |        | 0.00             | 284        | 124168   | 80.06         | 2.31       |   |      |

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound  
D: Result from dilution  
m: Manual integration performed  
d: Compound manually deleted  
NR: Analyte not reported from this analysis  
\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



Data File: J:\MS07\DATA\061010\0610F010.D  
 Acqu Date: 06/10/2010 20:58  
 Run Type: MS  
 Lab ID: KWG1005659-1 -- K1005175-012MS

Quant Date: 06/11/2010 08:25

Instrument: MS07  
 Vial: 8  
 Dilution: 1.0  
 Soln Conc. Units: ug/ml

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

| IS Ref | Parameter Name                  | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q  | Rpt? |
|--------|---------------------------------|-------|--------|---------|------------|----------|---------------|------------|----|------|
| 4      | Pentachlorophenol               | 16.41 | -0.01  | 0.00    | 266        | 56055    | 64.32         | 1.85       |    |      |
| 4      | Phenanthrene                    | 16.73 | -0.01  | 0.00    | 178        | 470608   | 79.81         | 2.30       |    |      |
| 4      | Anthracene                      | 16.81 | -0.02  | 0.00    | 178        | 444372   | 71.68         | 2.07       |    |      |
| 4      | Carbazole                       | 17.10 | -0.01  | 0.00    | 167        | 395545   | 78.16         | 2.25       |    |      |
| 4      | Di-n-butyl Phthalate            | 17.72 | -0.01  | 0.00    | 149        | 506237   | 74.99         | 2.16       |    |      |
| 4      | Fluoranthene                    | 18.66 |        | 0.00    | 202        | 448256   | 83.85         | 2.42       |    |      |
| 5      | Benzidine                       | 18.92 |        | 0.00    | 184        | 12985    | 6.30          | 0.182      | J  |      |
| 5      | Pyrene                          | 19.01 | -0.01  | 0.00    | 202        | 440484   | 67.26         | 1.94       |    |      |
| 5      | Butyl Benzyl Phthalate          | 20.14 | -0.01  | 0.00    | 149        | 268709   | 72.00         | 2.07       |    |      |
| 5      | 3,3'-Dichlorobenzidine          | 21.09 | -0.02  | 0.00    | 252        | 136504   | 53.24         | 1.53       | J  |      |
| 5      | Benz(a)anthracene               | 21.10 | -0.01  | 0.00    | 228        | 434215   | 75.30         | 2.17       |    |      |
| 5      | Chrysene                        | 21.17 | -0.02  | 0.00    | 228        | 433199   | 77.60         | 2.24       |    |      |
| 5      | Bis(2-ethylhexyl) Phthalate     | 21.29 | -0.01  | 0.00    | 149        | 410845   | 77.36         | 2.23       |    |      |
| 6      | Di-n-octyl Phthalate            | 22.75 | -0.02  | 0.00    | 149        | 697388   | 74.54         | 2.15       |    |      |
| 6      | Benzo(b)fluoranthene            | 23.44 | -0.01  | 0.00    | 252        | 406097   | 78.81         | 2.27       |    |      |
| 6      | Benzo(k)fluoranthene            | 23.50 | -0.03  | 0.00    | 252        | 381507   | 71.34         | 2.06       |    |      |
| 6      | Benzo(a)pyrene                  | 24.17 | -0.02  | 0.00    | 252        | 338086   | 79.00         | 2.28       |    |      |
| 6      | Indeno(1,2,3-cd)pyrene          | 26.75 | -0.03  | 0.00    | 276        | 269966   | 72.84         | 2.10       |    |      |
| 6      | Dibenz(a,h)anthracene           | 26.83 | -0.02  | 0.00    | 278        | 291326   | 73.79         | 2.13       |    |      |
| 6      | Benzo(g,h,i)perylene            | 27.33 | -0.02  | 0.00    | 276        | 275111   | 68.76         | 1.98       |    |      |
|        | Hexachlorocyclohexane           |       |        |         | 0          | 0        |               | 0.58       | UJ | NR   |
|        | 1,2,3-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | 1,2,3,4-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | 1,2,3,5-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | 1,3,5-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | Acrylamide                      |       |        |         | 0          | 0        |               | 43         | U  | NR   |
|        | Diisobutyl Phthalate            |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | OPMO                            |       |        |         | 0          | 0        |               | 1.7        | U  | NR   |
|        | 1-Methylnaphthalene             |       |        |         | 0          | 0        |               | 0.29       | UJ | NR   |
|        | HPMO                            |       |        |         | 0          | 0        |               | 1.7        | U  | NR   |
|        | 2,3,7,8-Tetrachlorodibenzo-p-di |       |        |         | 0          | 0        |               | 0.58       | UJ | NR   |

Prep Amount: 40.35 g Dilution: 1.0  
 Prep Final Vol: 1 mL Unit Factor: 1  
 Solids: 86.0 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:05 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 86297    | 40.00 | ug/ml | -0.02     |
| 21) Naphthalene-d8        | 11.43 | 136  | 318991   | 40.00 | ug/ml | -0.02     |
| 34) Acenaphthene-d10      | 14.30 | 164  | 167887   | 40.00 | ug/ml | 0.00      |
| 58) Phenanthrene-d10      | 16.70 | 188  | 221940   | 40.00 | ug/ml | 0.00      |
| 68) Chrysene-d12          | 21.11 | 240  | 245359   | 40.00 | ug/ml | -0.02     |
| 77) Perylene-d12          | 24.30 | 264  | 200032   | 40.00 | ug/ml | 0.00      |

System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 203599   | 88.74    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 59.16% |
| 7) Phenol-d6             | 8.84    | 99    | 309459   | 96.71    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 64.47% |
| 19) Nitrobenzene-d5      | 10.26   | 82    | 204634   | 65.47    | ug/ml | -0.03  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 65.47% |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 376700   | 68.44    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 68.44% |
| 59) 2,4,6-Tribromophenol | 15.58   | 330   | 105545   | 117.33   | ug/ml | -0.02  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 78.22% |
| 71) Terphenyl-d14        | 19.31   | 244   | 293367   | 78.09    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 78.09% |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.11  | 42   | 116607m  | 56.55 | ug/ml |        |
| 3) Pyridine                    | 4.15  | 79   | 246043m  | 84.21 | ug/ml |        |
| 5) Aniline                     | 8.80  | 93   | 182781   | 56.51 | ug/ml | 62     |
| 6) Bis(2-chloroethyl) Ether    | 8.93  | 93   | 164426   | 63.01 | ug/ml | 98     |
| 8) Phenol                      | 8.86  | 94   | 210506   | 64.23 | ug/ml | 97     |
| 9) 2-Chlorophenol              | 8.99  | 128  | 183806   | 65.05 | ug/ml | 96     |
| 10) 1,3-Dichlorobenzene        | 9.22  | 146  | 193723   | 64.64 | ug/ml | 98     |
| 11) 1,4-Dichlorobenzene        | 9.36  | 146  | 201855   | 66.13 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.60  | 146  | 194000   | 67.14 | ug/ml | 94     |
| 13) Benzyl Alcohol             | 9.62  | 108  | 114956   | 66.24 | ug/ml | 95     |
| 14) Bis(2-chloroisopropyl) Eth | 9.84  | 45   | 252710   | 58.37 | ug/ml | 81     |
| 15) 2-Methylphenol             | 9.86  | 107  | 144075   | 67.90 | ug/ml | 95     |
| 16) Hexachloroethane           | 10.16 | 117  | 88940    | 64.04 | ug/ml | 92     |
| 17) N-Nitrosodi-n-propylamine  | 10.07 | 70   | 141215   | 66.49 | ug/ml | 95     |
| 18) 4-Methylphenol             | 10.11 | 107  | 221033   | 68.59 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.30 | 77   | 189797   | 64.55 | ug/ml | 96     |
| 22) Isophorone                 | 10.71 | 82   | 365457   | 63.51 | ug/ml | 99     |
| 23) 2-Nitrophenol              | 10.82 | 139  | 111483   | 70.31 | ug/ml | 99     |
| 24) 2,4-Dimethylphenol         | 10.97 | 122  | 119660   | 56.44 | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93   | 226767   | 70.15 | ug/ml | 99     |

(#) = qualifier out of range (m) = manual integration  
 0610F010.D 0602BNC7.M Fri Jun 11 10:16:50 2010



Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:05 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.25 | 162  | 172574   | 71.75 | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.21 | 122  | 46248    | 25.45 | ug/ml  | 98     |
| 28) 1,2,4-Trichlorobenzene     | 11.35 | 180  | 175879   | 68.88 | ug/ml  | 99     |
| 29) Naphthalene                | 11.47 | 128  | 546166   | 71.36 | ug/ml  | 100    |
| 30) 4-Chloroaniline            | 11.59 | 127  | 218910   | 64.83 | ug/ml  | 94     |
| 31) Hexachlorobutadiene        | 11.69 | 225  | 110605   | 68.27 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.44 | 107  | 181945   | 72.47 | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.61 | 142  | 370108   | 76.00 | ug/ml  | 99     |
| 35) Hexachlorocyclopentadiene  | 12.88 | 237  | 61431    | 39.66 | ug/ml  | 100    |
| 36) 2,4,6-Trichlorophenol      | 13.09 | 196  | 127924   | 73.86 | ug/ml  | 96     |
| 37) 2,4,5-Trichlorophenol      | 13.17 | 196  | 141002   | 73.06 | ug/ml  | 100    |
| 39) 2-Chloronaphthalene        | 13.39 | 162  | 361606   | 74.47 | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 115039   | 73.65 | ug/ml  | 94     |
| 41) Acenaphthylene             | 14.06 | 152  | 590008   | 78.88 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.91 | 163  | 463253   | 81.17 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.00 | 165  | 102668   | 79.38 | ug/ml  | 99     |
| 44) Acenaphthene               | 14.34 | 154  | 325085   | 76.15 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.27 | 138  | 91035    | 66.90 | ug/ml  | 98     |
| 46) 2,4-Dinitrophenol          | 14.44 | 184  | 41845    | 55.76 | ug/ml  | 88     |
| 47) Dibenzofuran               | 14.63 | 168  | 534457   | 79.40 | ug/ml  | 96     |
| 48) 4-Nitrophenol              | 14.63 | 109  | 55920    | 75.89 | ug/ml# | 53     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 127381   | 77.71 | ug/ml  | 94     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 100147   | 71.17 | ug/ml  | 98     |
| 51) Fluorene                   | 15.19 | 166  | 409935   | 81.27 | ug/ml  | 98     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.21 | 204  | 191562   | 74.18 | ug/ml  | 98     |
| 53) Diethyl Phthalate          | 15.07 | 149  | 466034   | 84.46 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.26 | 138  | 90312    | 76.67 | ug/ml  | 97     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.31 | 198  | 64183    | 71.99 | ug/ml# | 62     |
| 56) N-Nitrosodiphenylamine     | 15.41 | 169  | 247055   | 73.46 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 413542   | 72.92 | ug/ml  | 99     |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 107050   | 80.00 | ug/ml  | 97     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 124168   | 80.06 | ug/ml  | 84     |
| 62) Pentachlorophenol          | 16.41 | 266  | 56055    | 64.32 | ug/ml  | 95     |
| 63) Phenanthrene               | 16.73 | 178  | 470608   | 79.81 | ug/ml  | 100    |
| 64) Anthracene                 | 16.81 | 178  | 444372   | 71.68 | ug/ml  | 99     |
| 65) Carbazole                  | 17.10 | 167  | 395545   | 78.16 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.72 | 149  | 506237   | 74.99 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 448256   | 83.85 | ug/ml  | 97     |
| 69) Benzidine                  | 18.92 | 184  | 12985    | 6.30  | ug/ml  | 95     |
| 70) Pyrene                     | 19.01 | 202  | 440484   | 67.26 | ug/ml  | 98     |
| 72) Butyl Benzyl Phthalate     | 20.14 | 149  | 268709   | 72.00 | ug/ml  | 97     |

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



Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:05 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.09 | 252  | 136504   | 53.24 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.10 | 228  | 434215   | 75.30 | ug/ml | 98     |
| 75) Chrysene                   | 21.17 | 228  | 433199   | 77.60 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.29 | 149  | 410845   | 77.36 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.75 | 149  | 697388   | 74.54 | ug/ml | 98     |
| 79) Benzo(b)fluoranthene       | 23.44 | 252  | 406097   | 78.81 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.50 | 252  | 381507   | 71.34 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 338086   | 79.00 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.75 | 276  | 269966   | 72.84 | ug/ml | 99     |
| 83) Dibenz(a,h)anthracene      | 26.83 | 278  | 291326   | 73.79 | ug/ml | 97     |
| 84) Benzo(g,h,i)perylene       | 27.33 | 276  | 275111   | 68.76 | ug/ml | 94     |





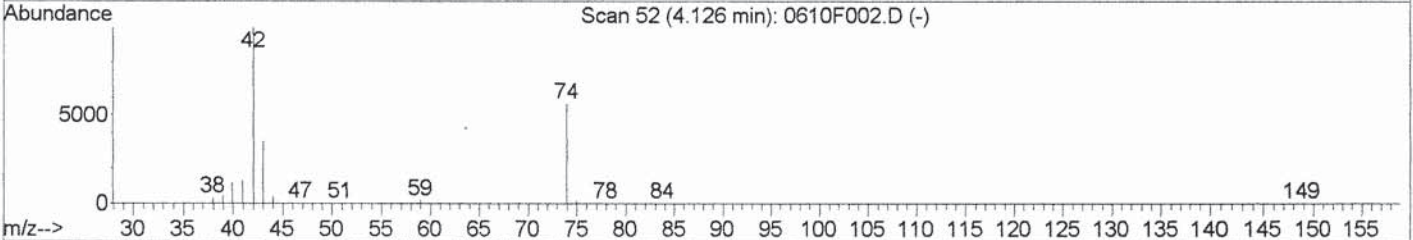
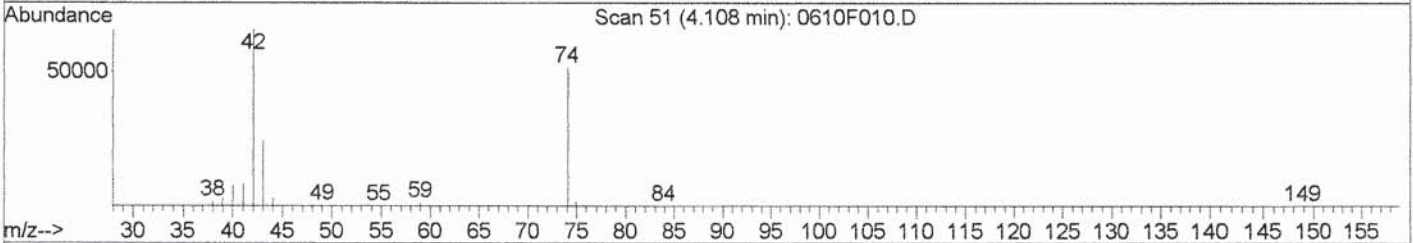
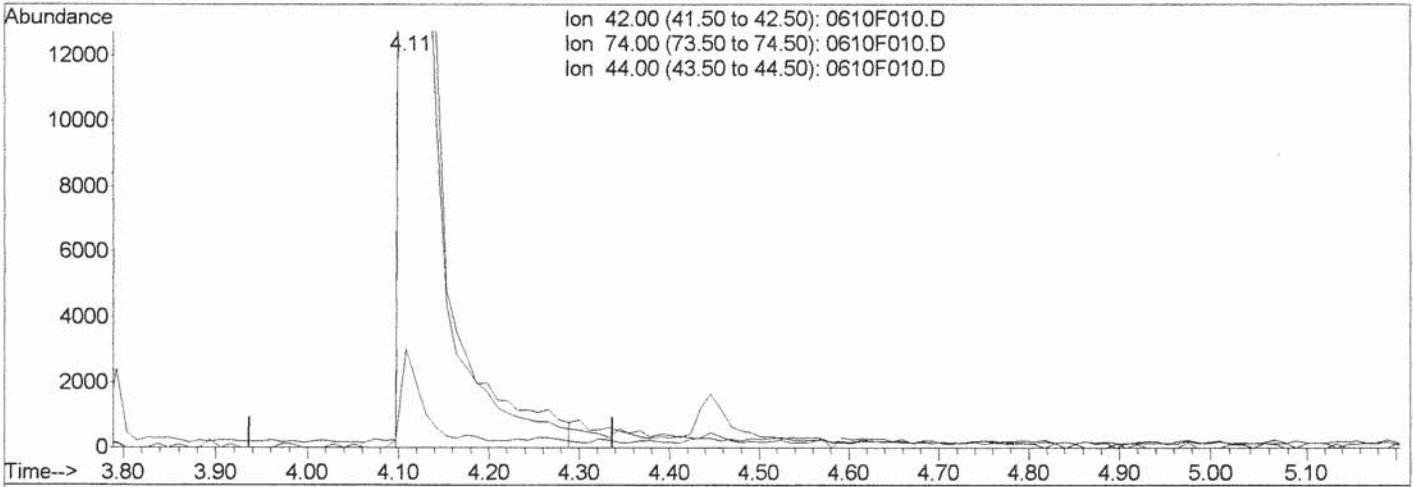
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:09 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F010.D

(2) N-Nitrosodimethylamine (T)

4.11min 54.59ug/ml

response 112559

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 78.48 |
| 44.00 | 4.40  | 4.29  |
| 0.00  | 0.00  | 0.00  |

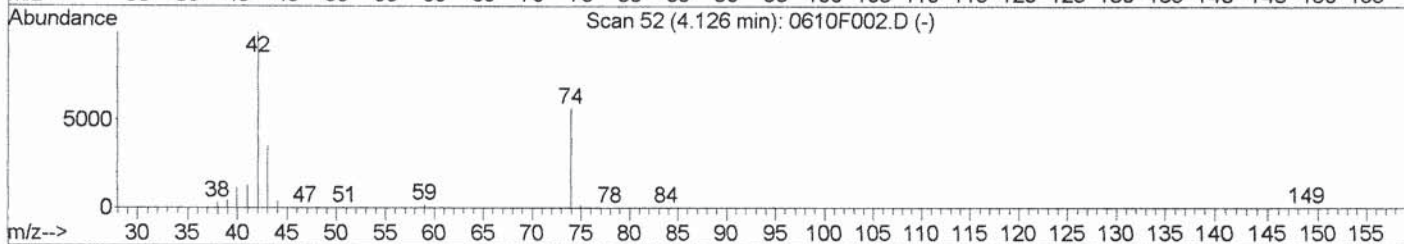
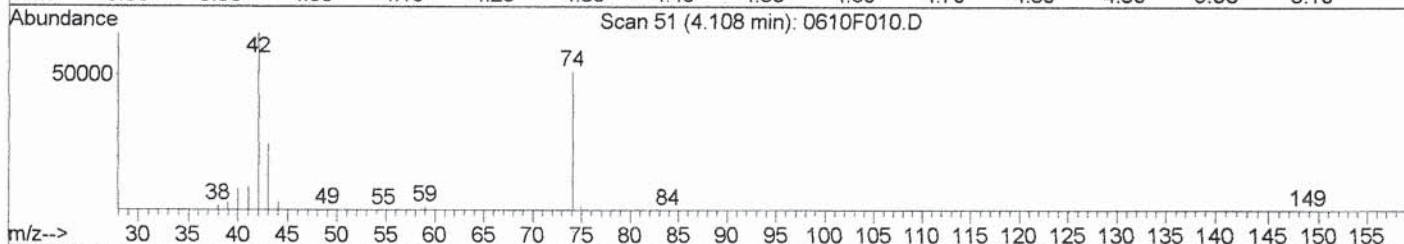
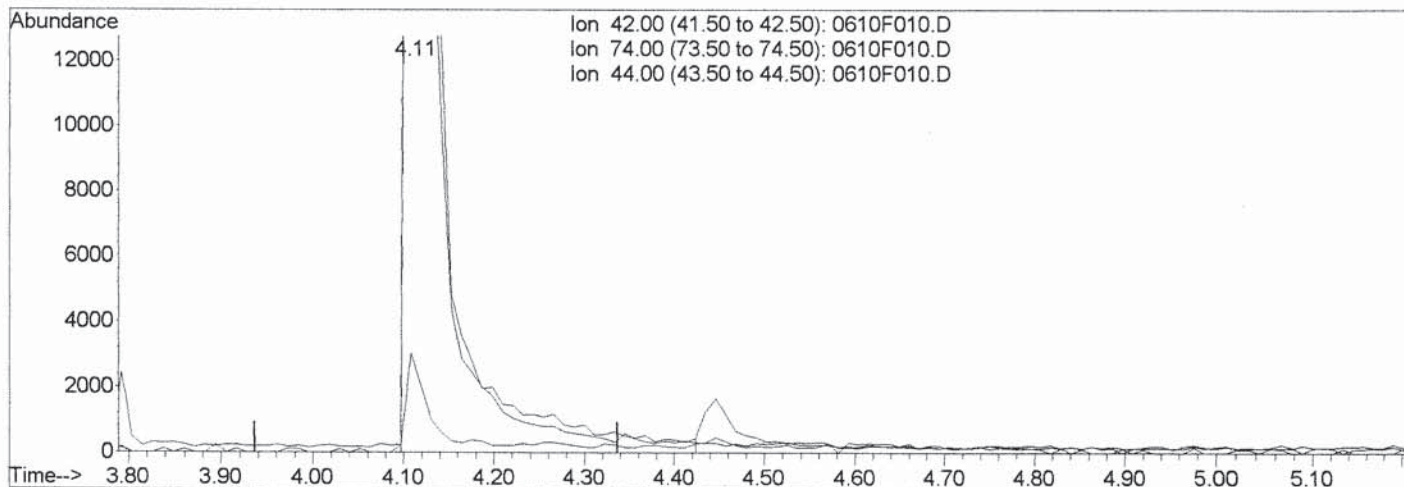
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:25 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F010.D

(2) N-Nitrosodimethylamine (T)

4.11min 56.55ug/ml m

response 116607

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 78.46 |
| 44.00 | 4.40  | 4.63  |
| 0.00  | 0.00  | 0.00  |

*Handwritten signature*

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 LB  
 411410



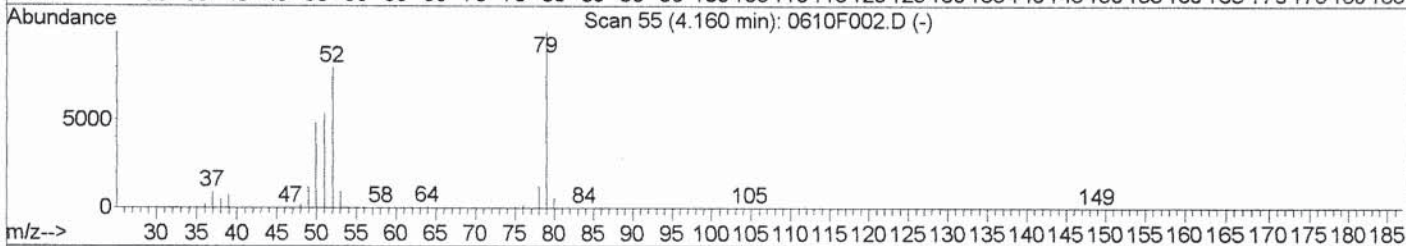
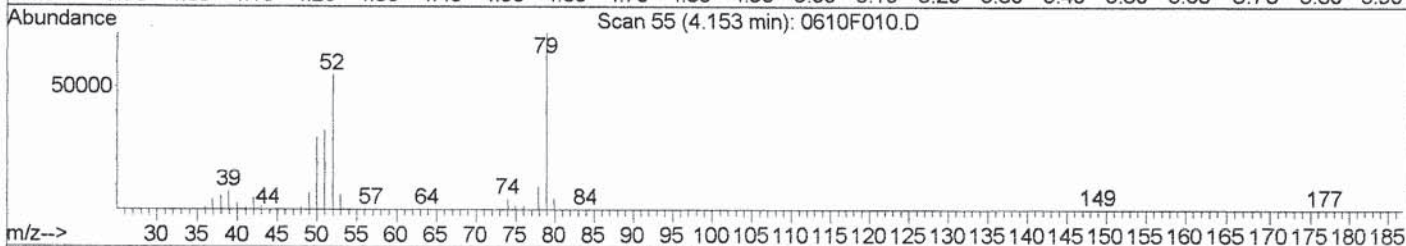
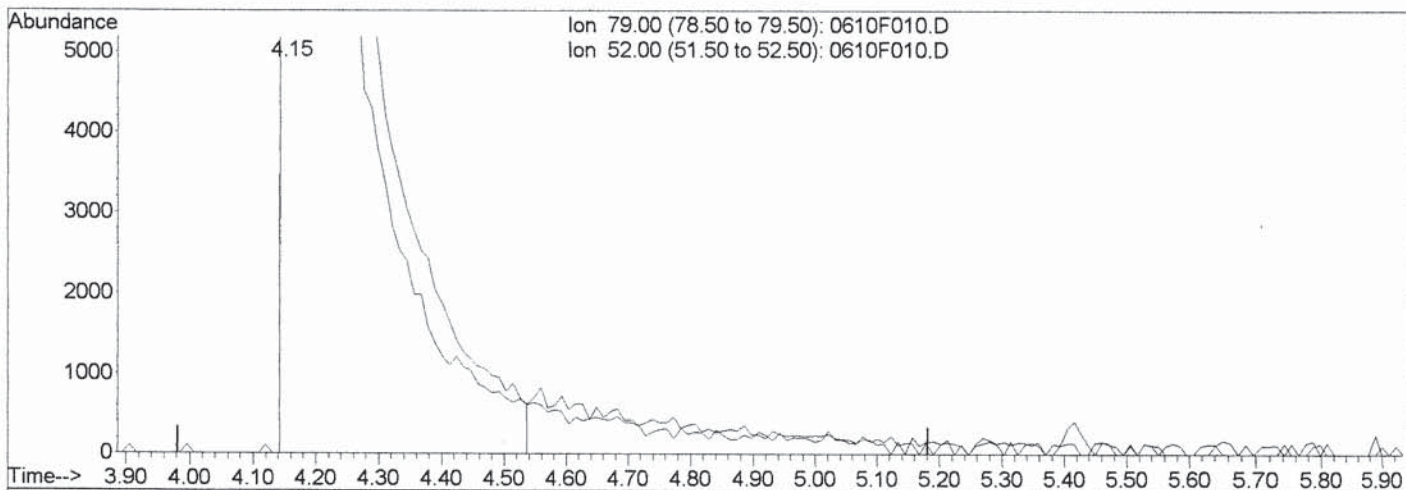
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:25 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F010.D

(3) Pyridine (T)

4.15min 79.87ug/ml

response 233365

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.82 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

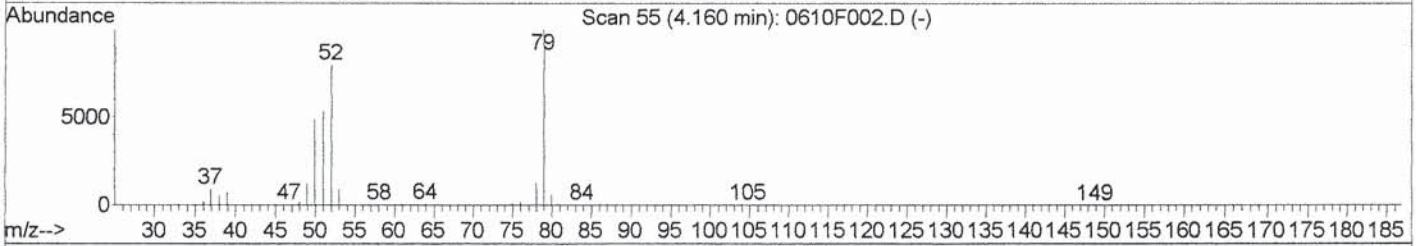
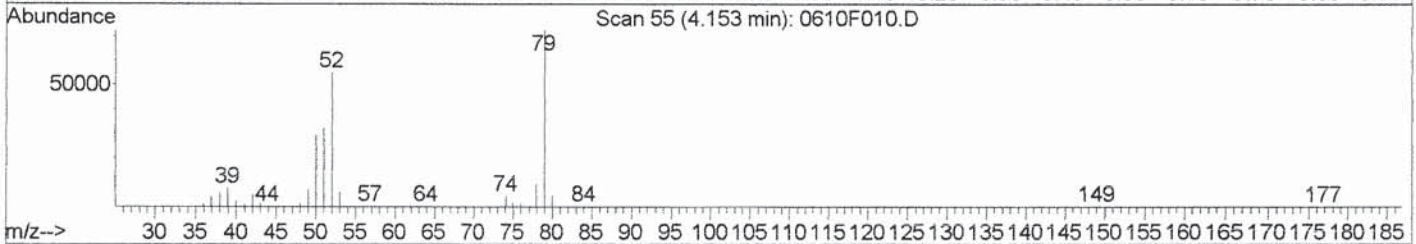
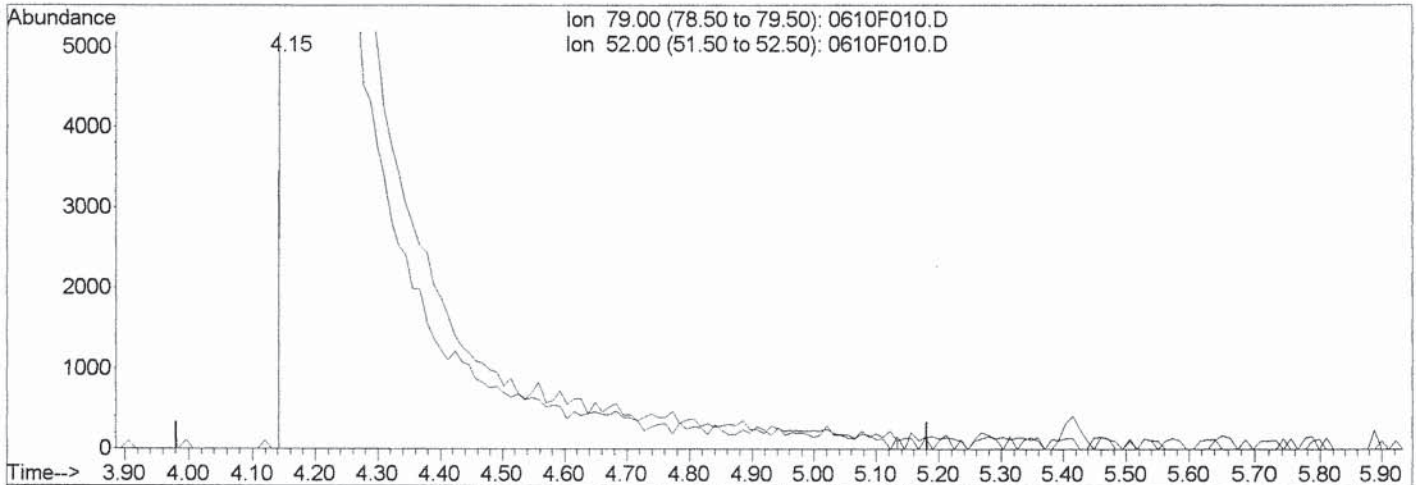
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F010.D  
 Acq On : 10 Jun 2010 8:58 pm  
 Sample : KQ5080-1 K1005175-12 MS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:25 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F010.D

(3) Pyridine (T)

4.15min 84.21ug/ml m

response 246043

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.92 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten signature: J L m 6-11-10*

*Handwritten initials: LB 4/14/10*



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QCDMS  
 Lab Code: KWG1005659-2  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Extraction<br>Lot | Note |
|------------------------------|--------|---|------|--------|--------------------|-------------------|------------------|-------------------|------|
| N-Nitrosodimethylamine       | 1.62   | J | 1.8  | 0.026  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Aniline                      | 1.66   |   | 0.87 | 0.022  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Bis(2-chloroethyl) Ether     | 1.73   |   | 0.29 | 0.012  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Phenol                       | 1.85   |   | 0.29 | 0.020  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Chlorophenol               | 1.78   |   | 0.29 | 0.0099 | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 1,3-Dichlorobenzene          | 1.71   |   | 0.29 | 0.019  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 1,4-Dichlorobenzene          | 1.73   |   | 0.29 | 0.018  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 1,2-Dichlorobenzene          | 1.73   |   | 0.29 | 0.018  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Benzyl Alcohol               | 1.86   |   | 0.29 | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Bis(2-chloroisopropyl) Ether | 1.71   |   | 0.29 | 0.015  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Methylphenol               | 1.82   |   | 0.29 | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Hexachloroethane             | 1.76   |   | 0.29 | 0.022  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| N-Nitrosodi-n-propylamine    | 1.89   |   | 0.29 | 0.020  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 4-Methylphenol†              | 1.91   |   | 0.29 | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Nitrobenzene                 | 1.86   |   | 0.29 | 0.027  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Isophorone                   | 1.76   |   | 0.29 | 0.014  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Nitrophenol                | 1.96   |   | 0.29 | 0.014  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2,4-Dimethylphenol           | 1.51   |   | 0.29 | 0.016  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Bis(2-chloroethoxy)methane   | 1.87   |   | 0.29 | 0.011  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2,4-Dichlorophenol           | 1.87   |   | 0.29 | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Benzoic Acid                 | 0.561  | J | 1.8  | 0.14   | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 1,2,4-Trichlorobenzene       | 1.93   |   | 0.29 | 0.011  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Naphthalene                  | 1.87   |   | 0.29 | 0.015  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 4-Chloroaniline              | 1.74   |   | 0.29 | 0.015  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Hexachlorobutadiene          | 1.85   |   | 0.29 | 0.015  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 4-Chloro-3-methylphenol      | 1.90   |   | 0.29 | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Methylnaphthalene          | 1.91   |   | 0.29 | 0.011  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Hexachlorocyclopentadiene    | 1.04   |   | 0.29 | 0.013  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2,4,6-Trichlorophenol        | 2.04   |   | 0.29 | 0.015  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2,4,5-Trichlorophenol        | 1.90   |   | 0.29 | 0.018  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Chloronaphthalene          | 2.04   |   | 0.29 | 0.010  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| 2-Nitroaniline               | 1.78   | J | 1.8  | 0.017  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |
| Acenaphthylene               | 1.97   |   | 0.29 | 0.016  | 1                  | 06/01/10          | 06/10/10         | KWG1005659        |      |

Comments:



## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Sediment

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Batch QCDMS  
 Lab Code: KWG1005659-2  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | 1.88   |   | 0.29 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | 1.94   |   | 0.29 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | 1.97   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | 1.79   | J | 1.8  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | 1.36   | J | 1.8  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | 1.88   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | 1.89   |   | 1.8  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | 1.85   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | 1.90   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | 1.81   |   | 0.29 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | 1.89   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | 2.00   |   | 1.8  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | 1.79   | J | 1.8  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | 1.91   |   | 0.29 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | 2.12   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | 2.16   |   | 0.29 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | 1.75   | J | 1.8  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | 2.13   |   | 0.29 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | 1.99   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | 2.26   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | 2.42   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | 1.98   |   | 0.29 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | 2.05   |   | 0.29 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | 1.57   | J | 1.8  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | 2.18   |   | 0.29 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | 2.05   |   | 0.29 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 2.12   |   | 0.29 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | 2.20   |   | 0.29 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | 2.22   |   | 0.29 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | 1.95   |   | 0.29 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | 2.15   |   | 0.29 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | 2.12   |   | 0.29 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | 1.95   |   | 0.29 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Sediment

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Batch QCDMS  
**Lab Code:** KWG1005659-2  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | 2.05   |   | 0.29 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 60   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 66   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 66   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 65   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 73   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 75   | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F011.D  
**Lab ID:** KWG1005659-2 -- K1005175-012DMS  
**RunType:** DMS  
**Matrix:** SEDIMENT

**Date Acquired:** 06/10/2010 21:38  
**Date Quantitated:** 06/11/2010 08:26  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         |      | x    |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

Batch Qc:

K5244

K5282

K5284

K5353

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | NT                |
| Continuing Calibration Recovery | Benzidine    | -35.0  | NA        | 30         | L                 |

Primary Review: M 6-11-10  
 Secondary Review: KB 6/11/10



# Quantitation Report

|                      |               |               |            |
|----------------------|---------------|---------------|------------|
| Bottle ID:           | Tier:         | Matrix:       | SEDIMENT   |
| Prod Code: 8270C SVO | Collect Date: | Receive Date: | 06/10/2010 |

|                          |                       |               |
|--------------------------|-----------------------|---------------|
| Analysis Lot: KWG1005663 | Prep Lot: KWG1005659  | Report Group: |
| Analysis Method: 8270C   | Prep Method: EPA 3541 |               |
| Prep Ref: 918270         | Prep Date: 06/01/2010 |               |

|   |                         |
|---|-------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525 |
| Title:  |                         |
| Tune Ref: J:\MS07\DATA\061010\0610F001.D          | Method ID: MJ250        |
| MB Ref: J:\MS07\DATA\061010\0610F007.D            | Quant based on Method   |

|   |                              |
|---|------------------------------|
| Data File: J:\MS07\DATA\061010\0610F011.D | Instrument: MS07             |
| Acqu Date: 06/10/2010 21:38               | Quant Date: 06/11/2010 08:26 |
| Run Type: DMS                             | Vial: 9                      |
| Lab ID: KWG1005659-2 -- K1005175-012DMS   | Dilution: 1.0                |
|   | Soln Conc. Units: ug/ml      |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 93653    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.43 | -0.01  | 136        | 364424   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.29 | 0.00   | 164        | 186774   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.69 | -0.01  | 188        | 217711   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.11 | -0.02  | 240        | 252445   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.29 | -0.02  | 264        | 199314   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  | 0.00   | 0.00    | 112        | 223303   | 89.68         | 60   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.84  | -0.02  | 0.00    | 99         | 342883   | 98.74         | 66   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.26 | -0.02  | 0.00    | 82         | 222336   | 65.54         | 66   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.23 | 0.00   | 0.00    | 172        | 395661   | 64.62         | 65   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.58 | -0.01  | 0.00    | 330        | 96634    | 109.51        | 73   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.31 | -0.01  | 0.00    | 244        | 290779   | 75.23         | 75   | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.11 | -0.02  | 0.00    | 42         | 125784m  | 56.21         | 1.62       | J |      |
| 1      | Pyridine                 | 4.15 | -0.01  | 0.00    | 79         | 277894m  | 87.64         | 2.52       |   |      |
| 1      | Aniline                  | 8.80 |        | 0.00    | 93         | 201772   | 57.49         | 1.66       |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.93 | -0.02  | 0.00    | 93         | 169872   | 59.99         | 1.73       |   |      |
| 1      | Phenol                   | 8.86 | -0.02  | 0.00    | 94         | 228663   | 64.29         | 1.85       |   |      |
| 1      | 2-Chlorophenol           | 8.99 | -0.02  | 0.00    | 128        | 189953   | 61.95         | 1.78       |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.23 |        | 0.00    | 146        | 192861   | 59.30         | 1.71       |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.36 | -0.01  | 0.00    | 146        | 198468   | 59.91         | 1.73       |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.60 | -0.01  | 0.00    | 146        | 188627   | 60.16         | 1.73       |   |      |
| 1      | Benzyl Alcohol           | 9.62 | -0.02  | 0.00    | 108        | 121796   | 64.67         | 1.86       |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

|            |                                 |                   |                  |
|------------|---------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F011.D  | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 21:38                | Quant Date:       | 06/11/2010 08:26 |
| Run Type:  | DMS                             | Vial:             | 9                |
| Lab ID:    | KWG1005659-2 -- K1005175-012DMS | Dilution:         | 1.0              |
|            |                                 | Soln Conc. Units: | ug/ml            |

| Target Compounds |                              | Final Conc. Units: |        | mg/Kg Dry Weight |            |          |               |            |   |      |
|------------------|------------------------------|--------------------|--------|------------------|------------|----------|---------------|------------|---|------|
| IS Ref           | Parameter Name               | RT                 | RT Dev | RRT Dev          | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
| 1                | Bis(2-chloroisopropyl) Ether | 9.85               |        | 0.00             | 45         | 278742   | 59.33         | 1.71       |   |      |
| 1                | 2-Methylphenol               | 9.86               |        | 0.00             | 107        | 145628   | 63.24         | 1.82       |   |      |
| 1                | Hexachloroethane             | 10.16              | -0.01  | 0.00             | 117        | 92028    | 61.06         | 1.76       |   |      |
| 1                | N-Nitrosodi-n-propylamine    | 10.07              | -0.02  | 0.00             | 70         | 150829   | 65.43         | 1.89       |   |      |
| 1                | 4-Methylphenol               | 10.12              | -0.01  | 0.00             | 107        | 231989   | 66.34         | 1.91       |   |      |
| 1                | Nitrobenzene                 | 10.30              | -0.01  | 0.00             | 77         | 206496   | 64.71         | 1.86       |   |      |
| 2                | Isophorone                   | 10.71              | -0.02  | 0.00             | 82         | 402493   | 61.23         | 1.76       |   |      |
| 2                | 2-Nitrophenol                | 10.83              |        | 0.00             | 139        | 122977   | 67.89         | 1.96       |   |      |
| 2                | 2,4-Dimethylphenol           | 10.97              | -0.01  | 0.00             | 122        | 127199   | 52.52         | 1.51       |   |      |
| 2                | Bis(2-chloroethoxy)methane   | 11.10              | -0.01  | 0.00             | 93         | 240278   | 65.06         | 1.87       |   |      |
| 2                | 2,4-Dichlorophenol           | 11.25              | -0.01  | 0.00             | 162        | 178690   | 65.03         | 1.87       |   |      |
| 2                | Benzoic Acid                 | 11.20              | -0.13  | -0.01            | 122        | 40389    | 19.46         | 0.561      | J |      |
| 2                | 1,2,4-Trichlorobenzene       | 11.36              |        | 0.00             | 180        | 195796   | 67.12         | 1.93       |   |      |
| 2                | Naphthalene                  | 11.47              |        | 0.00             | 128        | 566813   | 64.83         | 1.87       |   |      |
| 2                | 4-Chloroaniline              | 11.59              | -0.02  | 0.00             | 127        | 232671   | 60.32         | 1.74       |   |      |
| 2                | Hexachlorobutadiene          | 11.69              | -0.01  | 0.00             | 225        | 119070   | 64.34         | 1.85       |   |      |
| 2                | 4-Chloro-3-methylphenol      | 12.44              | -0.01  | 0.00             | 107        | 189522   | 66.07         | 1.90       |   |      |
| 2                | 2-Methylnaphthalene          | 12.61              |        | 0.00             | 142        | 368552   | 66.24         | 1.91       |   |      |
| 3                | Hexachlorocyclopentadiene    | 12.87              |        | 0.00             | 237        | 60409    | 35.97         | 1.04       |   |      |
| 3                | 2,4,6-Trichlorophenol        | 13.09              | -0.02  | 0.00             | 196        | 136199   | 70.69         | 2.04       |   |      |
| 3                | 2,4,5-Trichlorophenol        | 13.17              | -0.01  | 0.00             | 196        | 141504   | 65.90         | 1.90       |   |      |
| 3                | 2-Chloronaphthalene          | 13.40              |        | 0.00             | 162        | 382155   | 70.75         | 2.04       |   |      |
| 3                | 2-Nitroaniline               | 13.60              |        | 0.00             | 65         | 107337   | 61.77         | 1.78       | J |      |
| 3                | Acenaphthylene               | 14.06              | -0.01  | 0.00             | 152        | 569765   | 68.47         | 1.97       |   |      |
| 3                | Dimethyl Phthalate           | 13.91              | -0.02  | 0.00             | 163        | 413664   | 65.15         | 1.88       |   |      |
| 3                | 2,6-Dinitrotoluene           | 14.00              | -0.02  | 0.00             | 165        | 96926    | 67.36         | 1.94       |   |      |
| 3                | Acenaphthene                 | 14.34              | -0.02  | 0.00             | 154        | 324037   | 68.23         | 1.97       |   |      |
| 3                | 3-Nitroaniline               | 14.27              | -0.02  | 0.00             | 138        | 93873    | 62.01         | 1.79       | J |      |
| 3                | 2,4-Dinitrophenol            | 14.44              | -0.02  | 0.00             | 184        | 39391    | 47.18         | 1.36       | J |      |
| 3                | Dibenzofuran                 | 14.62              | -0.02  | 0.00             | 168        | 488202   | 65.19         | 1.88       |   |      |
| 3                | 4-Nitrophenol                | 14.63              |        | 0.00             | 109        | 53855    | 65.70         | 1.89       |   |      |
| 3                | 2,4-Dinitrotoluene           | 14.65              | -0.01  | 0.00             | 165        | 116964   | 64.14         | 1.85       |   |      |
| 3                | 2,3,4,6-Tetrachlorophenol    | 14.85              | -0.02  | 0.00             | 232        | 90233    | 57.64         | 1.66       |   |      |
| 3                | Fluorene                     | 15.19              |        | 0.00             | 166        | 370475   | 66.02         | 1.90       |   |      |
| 3                | 4-Chlorophenyl Phenyl Ether  | 15.21              | -0.01  | 0.00             | 204        | 180353   | 62.78         | 1.81       |   |      |
| 3                | Diethyl Phthalate            | 15.06              | -0.02  | 0.00             | 149        | 403634   | 65.76         | 1.89       |   |      |
| 3                | 4-Nitroaniline               | 15.27              | -0.01  | 0.00             | 138        | 90815    | 69.30         | 2.00       |   |      |
| 3                | 2-Methyl-4,6-dinitrophenol   | 15.31              | -0.02  | 0.00             | 198        | 61791    | 62.30         | 1.79       | J |      |
| 3                | N-Nitrosodiphenylamine       | 15.41              | -0.01  | 0.00             | 169        | 248251   | 66.35         | 1.91       |   |      |
| 3                | 1,2-Diphenylhydrazine        | 15.46              | -0.01  | 0.00             | 77         | 382987   | 60.70         | 1.75       |   |      |
| 4                | 4-Bromophenyl Phenyl Ether   | 16.00              |        | 0.00             | 248        | 96638    | 73.62         | 2.12       |   |      |
| 4                | Hexachlorobenzene            | 16.07              | -0.01  | 0.00             | 284        | 113847   | 74.83         | 2.16       |   |      |

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAL  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
c: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



|            |                                 |                   |                  |
|------------|---------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F011.D  | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 21:38                | Quant Date:       | 06/11/2010 08:26 |
| Run Type:  | DMS                             | Vial:             | 9                |
| Lab ID:    | KWG1005659-2 -- K1005175-012DMS | Dilution:         | 1.0              |
|            |                                 | Soln Conc. Units: | ug/ml            |

| Target Compounds |                                 | Final Conc. Units: |        | mg/Kg Dry Weight |            |          |               |            |    |      |
|------------------|---------------------------------|--------------------|--------|------------------|------------|----------|---------------|------------|----|------|
| IS Ref           | Parameter Name                  | RT                 | RT Dev | RRT Dev          | Quant Mass | Response | Solution Conc | Final Conc | Q  | Rpt? |
| 4                | Pentachlorophenol               | 16.42              |        | 0.00             | 266        | 52006    | 60.83         | 1.75       | J  |      |
| 4                | Phenanthrene                    | 16.73              | -0.01  | 0.00             | 178        | 428371   | 74.06         | 2.13       |    |      |
| 4                | Anthracene                      | 16.81              | -0.02  | 0.00             | 178        | 420685   | 69.18         | 1.99       |    |      |
| 4                | Carbazole                       | 17.10              | -0.01  | 0.00             | 167        | 380635   | 76.68         | 2.21       |    |      |
| 4                | Di-n-butyl Phthalate            | 17.72              | -0.01  | 0.00             | 149        | 519024   | 78.38         | 2.26       |    |      |
| 4                | Fluoranthene                    | 18.66              |        | 0.00             | 202        | 440909   | 84.07         | 2.42       |    |      |
| 5                | Benzidine                       | 18.92              |        | 0.00             | 184        | 17394    | 8.21          | 0.237      | J  |      |
| 5                | Pyrene                          | 19.01              | -0.01  | 0.00             | 202        | 463767   | 68.83         | 1.98       |    |      |
| 5                | Butyl Benzyl Phthalate          | 20.15              |        | 0.00             | 149        | 273336   | 71.19         | 2.05       |    |      |
| 5                | 3,3'-Dichlorobenzidine          | 21.09              | -0.02  | 0.00             | 252        | 143598   | 54.43         | 1.57       | J  |      |
| 5                | Benz(a)anthracene               | 21.09              | -0.02  | 0.00             | 228        | 448048   | 75.52         | 2.18       |    |      |
| 5                | Chrysene                        | 21.17              | -0.02  | 0.00             | 228        | 407876   | 71.01         | 2.05       |    |      |
| 5                | Bis(2-ethylhexyl) Phthalate     | 21.30              |        | 0.00             | 149        | 401221   | 73.42         | 2.12       |    |      |
| 6                | Di-n-octyl Phthalate            | 22.75              | -0.02  | 0.00             | 149        | 714538   | 76.46         | 2.20       |    |      |
| 6                | Benzo(b)fluoranthene            | 23.44              | -0.01  | 0.00             | 252        | 395646   | 77.06         | 2.22       |    |      |
| 6                | Benzo(k)fluoranthene            | 23.50              | -0.03  | 0.00             | 252        | 359882   | 67.54         | 1.95       |    |      |
| 6                | Benzo(a)pyrene                  | 24.17              | -0.02  | 0.00             | 252        | 318095   | 74.59         | 2.15       |    |      |
| 6                | Indeno(1,2,3-cd)pyrene          | 26.75              | -0.03  | 0.00             | 276        | 271463   | 73.50         | 2.12       |    |      |
| 6                | Dibenz(a,h)anthracene           | 26.83              | -0.02  | 0.00             | 278        | 265906   | 67.59         | 1.95       |    |      |
| 6                | Benzo(g,h,i)perylene            | 27.32              | -0.03  | 0.00             | 276        | 283555   | 71.13         | 2.05       |    |      |
|                  | Hexachlorocyclohexane           |                    |        |                  | 0          | 0        |               | 0.58       | UJ | NR   |
|                  | 1,2,3-Trichlorobenzene          |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | 1,2,3,4-Tetrachlorobenzene      |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | 1,2,3,5-Tetrachlorobenzene      |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | 1,3,5-Trichlorobenzene          |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | Acrylamide                      |                    |        |                  | 0          | 0        |               | 43         | U  | NR   |
|                  | Diisobutyl Phthalate            |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | OPMO                            |                    |        |                  | 0          | 0        |               | 1.7        | U  | NR   |
|                  | 1-Methylnaphthalene             |                    |        |                  | 0          | 0        |               | 0.29       | UJ | NR   |
|                  | HPMO                            |                    |        |                  | 0          | 0        |               | 1.7        | U  | NR   |
|                  | 2,3,7,8-Tetrachlorodibenzo-p-di |                    |        |                  | 0          | 0        |               | 0.58       | UJ | NR   |

Prep Amount: 40.36 g Dilution: 1.0  
 Prep Final Vol: 1 mL Unit Factor: 1  
 Solids: 86.0 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 d: Compound manually deleted  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 ? : Insufficient information to determine acceptance  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:06 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 93653    | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.43 | 136  | 364424   | 40.00 | ug/ml | -0.02    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 186774   | 40.00 | ug/ml | -0.02    |
| 58) Phenanthrene-d10      | 16.69 | 188  | 217711   | 40.00 | ug/ml | -0.02    |
| 68) Chrysene-d12          | 21.11 | 240  | 252445   | 40.00 | ug/ml | -0.02    |
| 77) Perylene-d12          | 24.29 | 264  | 199314   | 40.00 | ug/ml | -0.02    |

System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 223303   | 89.68    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 59.79% |
| 7) Phenol-d6             | 8.84    | 99    | 342883   | 98.74    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 65.83% |
| 19) Nitrobenzene-d5      | 10.26   | 82    | 222336   | 65.54    | ug/ml | -0.03  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 65.54% |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 395661   | 64.62    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 64.62% |
| 59) 2,4,6-Tribromophenol | 15.58   | 330   | 96634    | 109.51   | ug/ml | -0.02  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 73.01% |
| 71) Terphenyl-d14        | 19.31   | 244   | 290779   | 75.23    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 75.23% |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.11  | 42   | 125784m  | 56.21 | ug/ml |        |
| 3) Pyridine                    | 4.15  | 79   | 277894m  | 87.64 | ug/ml |        |
| 5) Aniline                     | 8.80  | 93   | 201772   | 57.49 | ug/ml | 62     |
| 6) Bis(2-chloroethyl) Ether    | 8.93  | 93   | 169872   | 59.99 | ug/ml | 96     |
| 8) Phenol                      | 8.86  | 94   | 228663   | 64.29 | ug/ml | 94     |
| 9) 2-Chlorophenol              | 8.99  | 128  | 189953   | 61.95 | ug/ml | 98     |
| 10) 1,3-Dichlorobenzene        | 9.23  | 146  | 192861   | 59.30 | ug/ml | 97     |
| 11) 1,4-Dichlorobenzene        | 9.36  | 146  | 198468   | 59.91 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.60  | 146  | 188627   | 60.16 | ug/ml | 96     |
| 13) Benzyl Alcohol             | 9.62  | 108  | 121796   | 64.67 | ug/ml | 96     |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45   | 278742   | 59.33 | ug/ml | 84     |
| 15) 2-Methylphenol             | 9.86  | 107  | 145628   | 63.24 | ug/ml | 96     |
| 16) Hexachloroethane           | 10.16 | 117  | 92028    | 61.06 | ug/ml | 90     |
| 17) N-Nitrosodi-n-propylamine  | 10.07 | 70   | 150829   | 65.43 | ug/ml | 94     |
| 18) 4-Methylphenol             | 10.12 | 107  | 231989   | 66.34 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.30 | 77   | 206496   | 64.71 | ug/ml | 94     |
| 22) Isophorone                 | 10.71 | 82   | 402493   | 61.23 | ug/ml | 100    |
| 23) 2-Nitrophenol              | 10.83 | 139  | 122977   | 67.89 | ug/ml | 100    |
| 24) 2,4-Dimethylphenol         | 10.97 | 122  | 127199   | 52.52 | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.10 | 93   | 240278   | 65.06 | ug/ml | 100    |

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



Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:06 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.25 | 162  | 178690   | 65.03 | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.20 | 122  | 40389    | 19.46 | ug/ml  | 98     |
| 28) 1,2,4-Trichlorobenzene     | 11.36 | 180  | 195796   | 67.12 | ug/ml  | 99     |
| 29) Naphthalene                | 11.47 | 128  | 566813   | 64.83 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.59 | 127  | 232671   | 60.32 | ug/ml  | 96     |
| 31) Hexachlorobutadiene        | 11.69 | 225  | 119070   | 64.34 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.44 | 107  | 189522   | 66.07 | ug/ml  | 85     |
| 33) 2-Methylnaphthalene        | 12.61 | 142  | 368552   | 66.24 | ug/ml  | 99     |
| 35) Hexachlorocyclopentadiene  | 12.87 | 237  | 60409    | 35.97 | ug/ml  | 94     |
| 36) 2,4,6-Trichlorophenol      | 13.09 | 196  | 136199   | 70.69 | ug/ml  | 97     |
| 37) 2,4,5-Trichlorophenol      | 13.17 | 196  | 141504   | 65.90 | ug/ml  | 100    |
| 39) 2-Chloronaphthalene        | 13.40 | 162  | 382155   | 70.75 | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 107337   | 61.77 | ug/ml  | 86     |
| 41) Acenaphthylene             | 14.06 | 152  | 569765   | 68.47 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.91 | 163  | 413664   | 65.15 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.00 | 165  | 96926    | 67.36 | ug/ml  | 91     |
| 44) Acenaphthene               | 14.34 | 154  | 324037   | 68.23 | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.27 | 138  | 93873    | 62.01 | ug/ml  | 93     |
| 46) 2,4-Dinitrophenol          | 14.44 | 184  | 39391    | 47.18 | ug/ml  | 97     |
| 47) Dibenzofuran               | 14.62 | 168  | 488202   | 65.19 | ug/ml  | 98     |
| 48) 4-Nitrophenol              | 14.63 | 109  | 53855    | 65.70 | ug/ml  | 95     |
| 49) 2,4-Dinitrotoluene         | 14.65 | 165  | 116964   | 64.14 | ug/ml  | 70     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.85 | 232  | 90233    | 57.64 | ug/ml# | 74     |
| 51) Fluorene                   | 15.19 | 166  | 370475   | 66.02 | ug/ml  | 99     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.21 | 204  | 180353   | 62.78 | ug/ml  | 99     |
| 53) Diethyl Phthalate          | 15.06 | 149  | 403634   | 65.76 | ug/ml  | 97     |
| 54) 4-Nitroaniline             | 15.27 | 138  | 90815    | 69.30 | ug/ml  | 99     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.31 | 198  | 61791    | 62.30 | ug/ml# | 35     |
| 56) N-Nitrosodiphenylamine     | 15.41 | 169  | 248251   | 66.35 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.46 | 77   | 382987   | 60.70 | ug/ml  | 92     |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 96638    | 73.62 | ug/ml  | 96     |
| 61) Hexachlorobenzene          | 16.07 | 284  | 113847   | 74.83 | ug/ml  | 100    |
| 62) Pentachlorophenol          | 16.42 | 266  | 52006    | 60.83 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.73 | 178  | 428371   | 74.06 | ug/ml  | 100    |
| 64) Anthracene                 | 16.81 | 178  | 420685   | 69.18 | ug/ml  | 100    |
| 65) Carbazole                  | 17.10 | 167  | 380635   | 76.68 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.72 | 149  | 519024   | 78.38 | ug/ml  | 100    |
| 67) Fluoranthene               | 18.66 | 202  | 440909   | 84.07 | ug/ml  | 96     |
| 69) Benzidine                  | 18.92 | 184  | 17394    | 8.21  | ug/ml  | 96     |
| 70) Pyrene                     | 19.01 | 202  | 463767   | 68.83 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.15 | 149  | 273336   | 71.19 | ug/ml  | 99     |

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

Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:06 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.09 | 252  | 143598   | 54.43 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.09 | 228  | 448048   | 75.52 | ug/ml | 99     |
| 75) Chrysene                   | 21.17 | 228  | 407876   | 71.01 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.30 | 149  | 401221   | 73.42 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.75 | 149  | 714538   | 76.46 | ug/ml | 100    |
| 79) Benzo(b)fluoranthene       | 23.44 | 252  | 395646   | 77.06 | ug/ml | 96     |
| 80) Benzo(k)fluoranthene       | 23.50 | 252  | 359882   | 67.54 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 318095   | 74.59 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.75 | 276  | 271463   | 73.50 | ug/ml | 99     |
| 83) Dibenz(a,h)anthracene      | 26.83 | 278  | 265906   | 67.59 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.32 | 276  | 283555   | 71.13 | ug/ml | 99     |





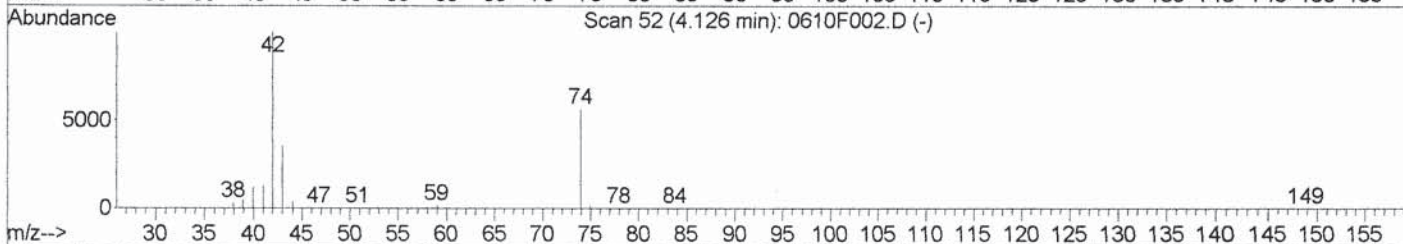
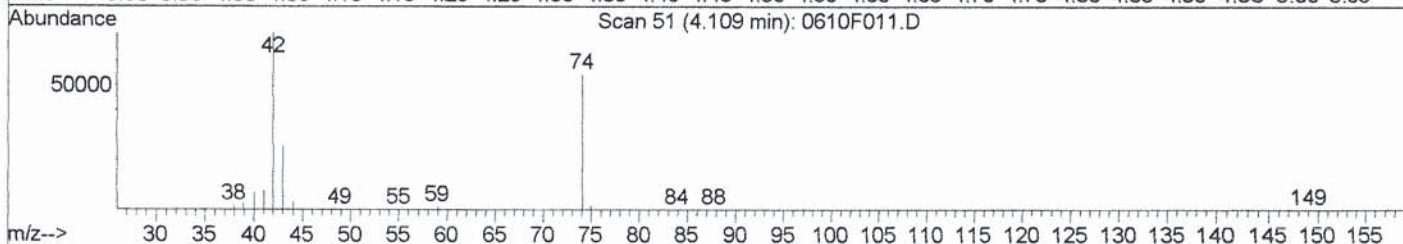
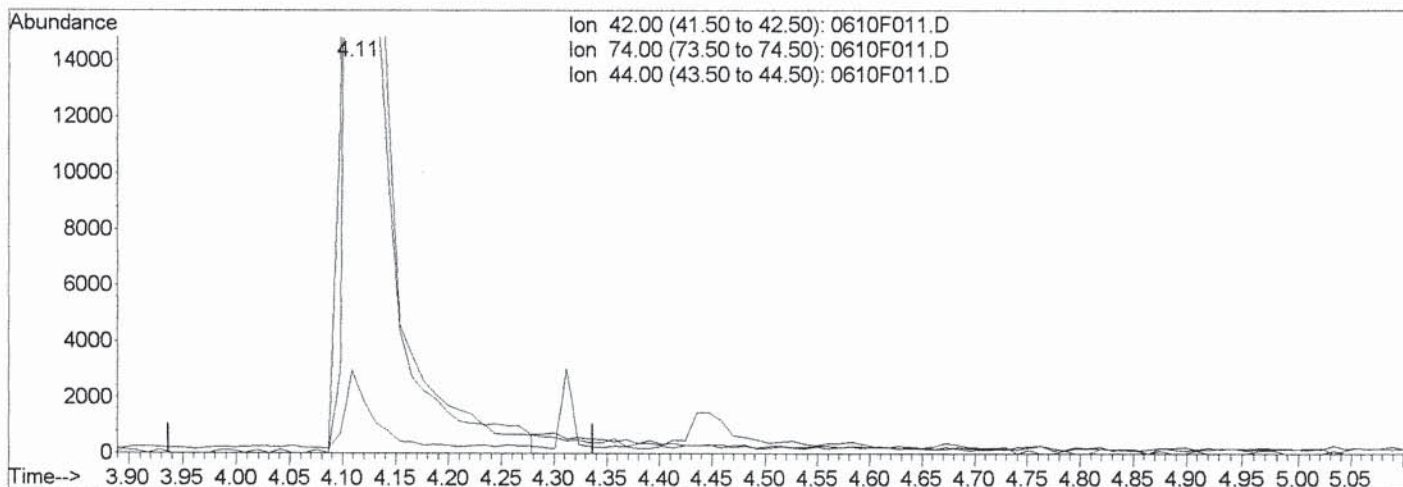
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:09 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F011.D

(2) N-Nitrosodimethylamine (T)

4.11min 54.44ug/ml

response 121815

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 76.31 |
| 44.00 | 4.40  | 3.85  |
| 0.00  | 0.00  | 0.00  |



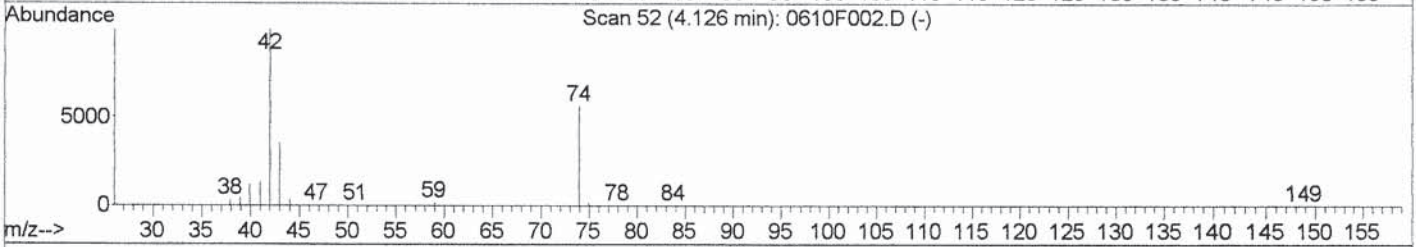
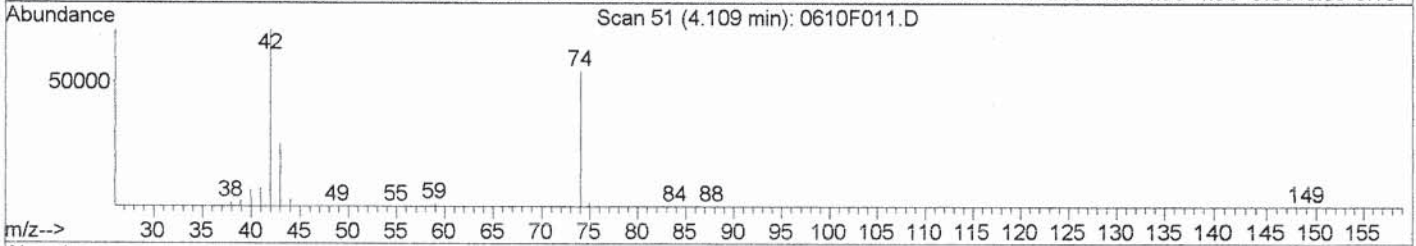
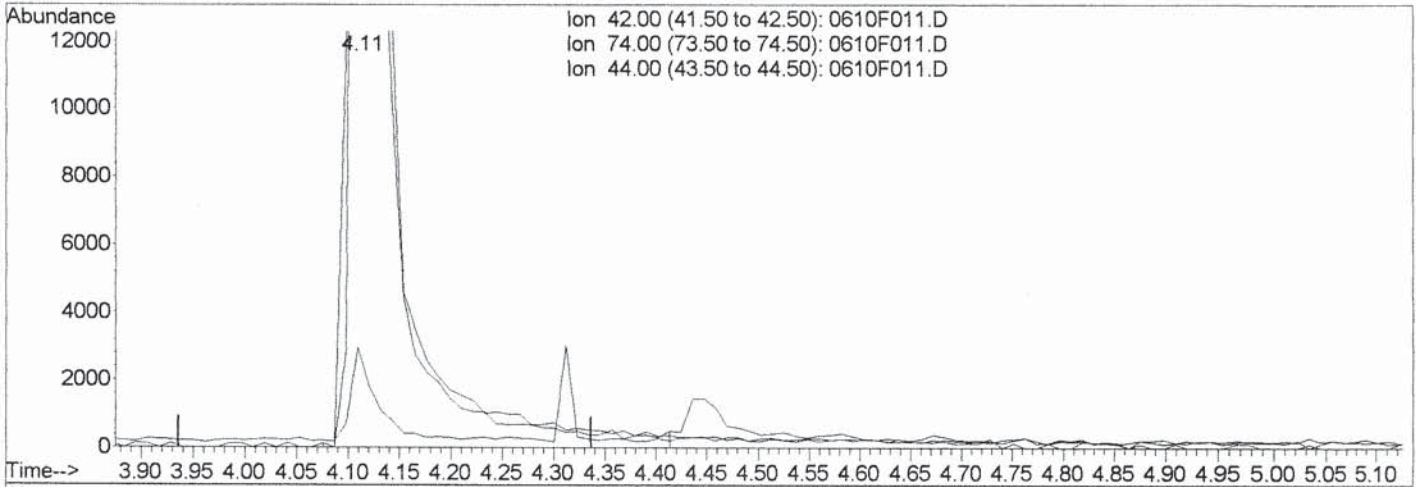
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:26 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F011.D

(2) N-Nitrosodimethylamine (T)

4.11min 56.21ug/ml m

response 125784

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 76.41 |
| 44.00 | 4.40  | 4.15  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes: 52, MB 11/10*

*Handwritten signature: LB 6/14/10*

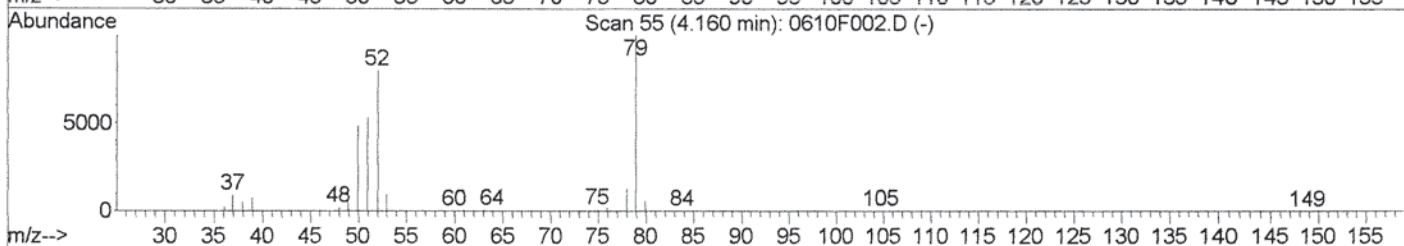
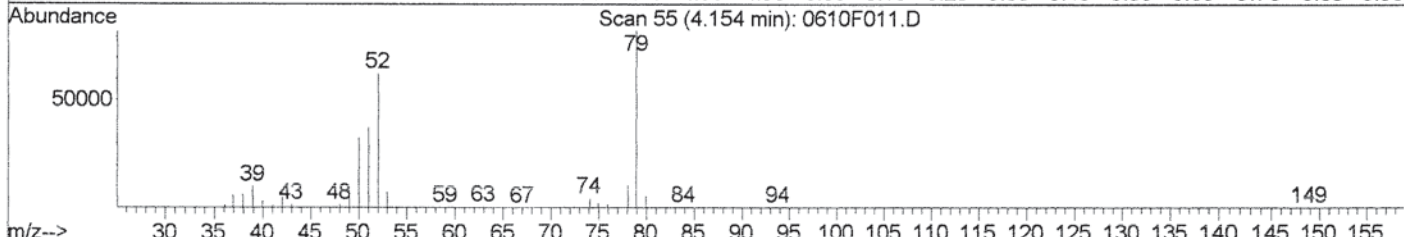
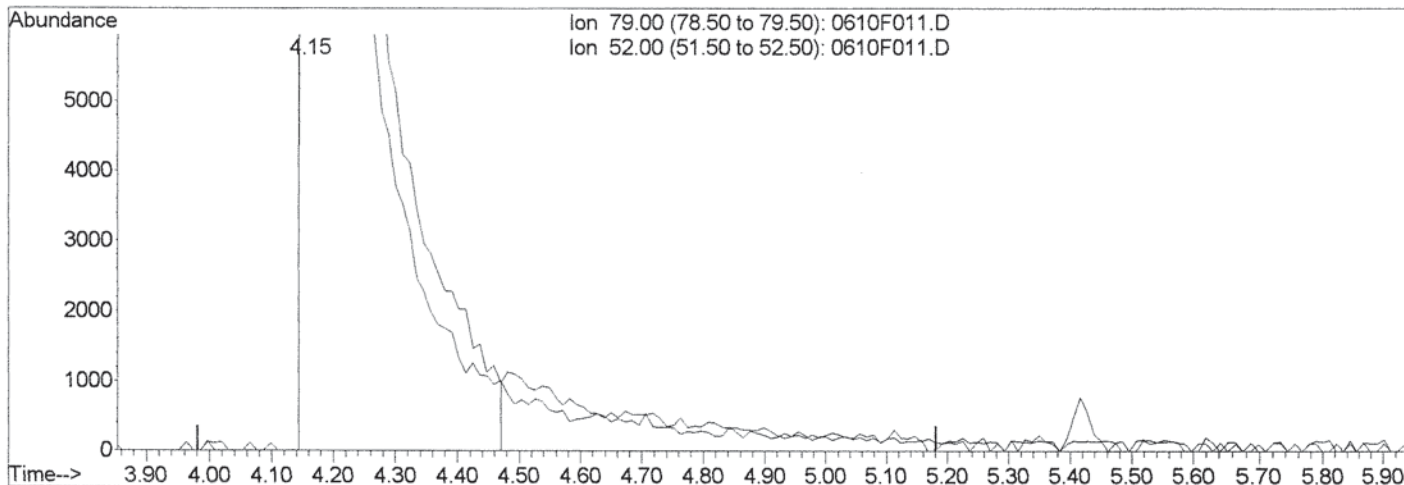
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:26 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F011.D

(3) Pyridine (T)

4.15min 81.98ug/ml

response 259943

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.26 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |



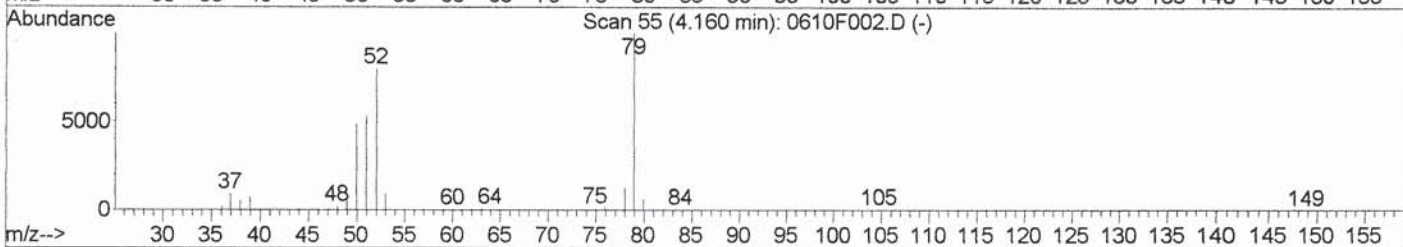
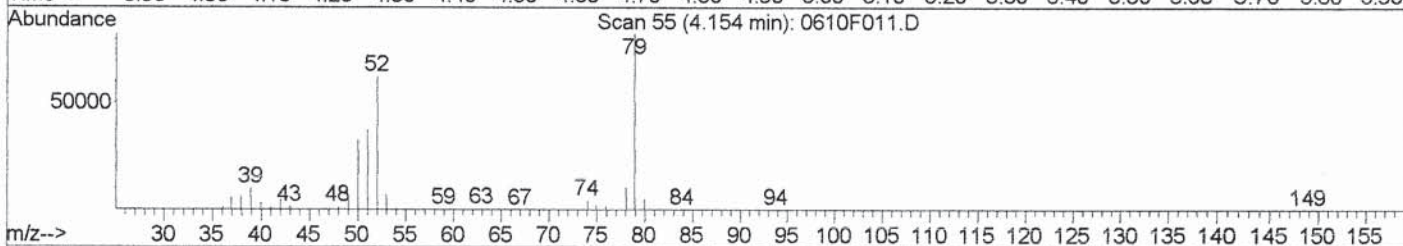
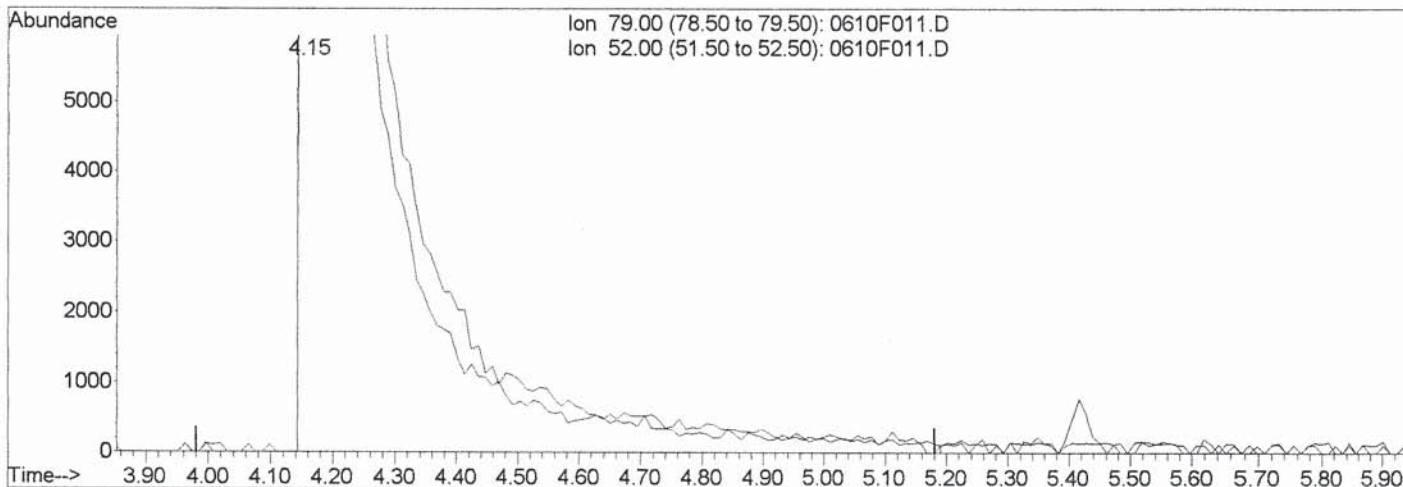
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F011.D  
 Acq On : 10 Jun 2010 9:38 pm  
 Sample : KQ5080-2 K1005175-12 DMS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:26 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



(3) Pyridine (T)

4.15min 87.64ug/ml m

response 277894

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.42 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten signature: MB 11-10*

*Handwritten initials: KB 6/11/10*

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

## Semi-Volatile Organic Compounds by GC/MS

**Sample Name:** Lab Control Sample  
**Lab Code:** KWG1005659-3  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | 2.14   |   | 2.0  | 0.026  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Aniline                      | 2.43   |   | 1.0  | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | 2.35   |   | 0.34 | 0.012  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenol                       | 2.25   |   | 0.34 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chlorophenol               | 2.30   |   | 0.34 | 0.0099 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | 2.35   |   | 0.34 | 0.019  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | 2.40   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | 2.42   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzyl Alcohol               | 2.52   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | 2.08   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylphenol               | 2.33   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachloroethane             | 2.22   |   | 0.34 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | 2.47   |   | 0.34 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Methylphenol†              | 2.56   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Nitrobenzene                 | 2.47   |   | 0.34 | 0.027  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Isophorone                   | 2.63   |   | 0.34 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitrophenol                | 2.75   |   | 0.34 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | 2.34   |   | 0.34 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | 2.59   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | 2.66   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzoic Acid                 | 1.95   | J | 2.0  | 0.14   | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | 2.68   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Naphthalene                  | 2.68   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloroaniline              | 2.65   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobutadiene          | 2.64   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | 3.03   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | 2.76   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | 1.14   |   | 0.34 | 0.013  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | 2.74   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | 2.87   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | 2.71   |   | 0.34 | 0.010  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitroaniline               | 2.66   |   | 2.0  | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthylene               | 3.02   |   | 0.34 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** KWG1005659-3  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | 3.21   |   | 0.34 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | 2.96   |   | 0.34 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | 3.02   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | 2.80   |   | 2.0  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | 2.32   |   | 2.0  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | 2.97   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | 2.93   |   | 2.0  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | 2.99   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | 3.06   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | 2.84   |   | 0.34 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | 3.26   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | 3.06   |   | 2.0  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | 2.87   |   | 2.0  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | 3.05   |   | 0.34 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | 3.36   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | 3.38   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | 2.80   |   | 2.0  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | 3.16   |   | 0.34 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | 3.15   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | 3.27   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | 3.27   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | 2.93   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | 2.92   |   | 0.34 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | 3.08   |   | 2.0  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | 3.39   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | 3.29   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 3.14   |   | 0.34 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | 3.18   |   | 0.34 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | 3.35   |   | 0.34 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | 3.37   |   | 0.34 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | 3.53   |   | 0.34 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | 3.15   |   | 0.34 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | 3.22   |   | 0.34 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

**Semi-Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** KWG1005659-3  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | 3.22   |   | 0.34 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 59   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 66   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 74   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 75   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 95   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 92   | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol                      This analyte cannot be separated from 3-Methylphenol.

Comments: \_\_\_\_\_



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F008.D  
**Lab ID:** KWG1005659-3  
**RunType:** LCS  
**Matrix:** MISC. SOLID

**Date Acquired:** 06/10/2010 19:38  
**Date Quantitated:** 06/11/2010 08:23  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         |      | x    |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

5175  
 5244  
 5282  
 5284  
 5353

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | MTJ               |
| Continuing Calibration Recovery | Benzidine    | -35.0  | NA        | 30         | L                 |

Primary Review: M 6-11-10  
 Secondary Review: LB 6-11-10

# Quantitation Report

|   |   |   |
|---|---|---|
| <b>Bottle ID:</b><br><b>Prod Code:</b> 8270C SVO  | <b>Tier:</b><br><b>Collect Date:</b>  | <b>Matrix:</b> MISC. SOLID<br><b>Receive Date:</b> 06/10/2010                                       |
| <b>Analysis Lot:</b> KWG1005663<br><b>Analysis Method:</b> 8270C<br><b>Prep Ref:</b> 918271   | <b>Prep Lot:</b> KWG1005659<br><b>Prep Method:</b> EPA 3541<br><b>Prep Date:</b> 06/01/2010   | <b>Report Group:</b>  |
| <b>Quant Method:</b> J:\MS07\METHODS\8270_625\0602BNC7.M<br><b>Title:</b><br><b>Tune Ref:</b> J:\MS07\DATA\061010\0610F001.D<br><b>MB Ref:</b> J:\MS07\DATA\061010\0610F007.D | <b>Calibration ID:</b> CAL9525<br><br><b>Method ID:</b> MJ250<br><b>Quant based on Method</b> |   |
| <b>Data File:</b> J:\MS07\DATA\061010\0610F008.D<br><b>Acqu Date:</b> 06/10/2010 19:38<br><b>Run Type:</b> LCS<br><b>Lab ID:</b> KWG1005659-3                                 | <b>Quant Date:</b> 06/11/2010 08:23   | <b>Instrument:</b> MS07<br><b>Vial:</b> 6<br><b>Dilution:</b> 1.0<br><b>Soln Conc. Units:</b> ug/ml |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 82022    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.43 | -0.01  | 136        | 303037   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.30 | 0.01   | 164        | 175397   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.70 | 0.00   | 188        | 226308   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.12 | -0.01  | 240        | 231145   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.30 | -0.01  | 264        | 195621   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  | 0.00   | 0.00    | 112        | 191825   | 87.97         | 59   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.84  | -0.02  | 0.00    | 99         | 302737   | 99.54         | 66   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.27 | -0.01  | 0.00    | 82         | 220121   | 74.09         | 74   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.22 | -0.01  | 0.00    | 172        | 433920   | 75.46         | 75   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.58 | -0.01  | 0.00    | 330        | 131013   | 142.83        | 95   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.31 | -0.01  | 0.00    | 244        | 326906   | 92.37         | 92   | 37-133      | OK   |

## Target Compounds

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.11 | -0.02  | 0.00    | 42         | 125679m  | 64.13         | 2.14       |   |      |
| 1      | Pyridine                 | 4.15 | -0.01  | 0.00    | 79         | 246331m  | 88.70         | 2.96       |   |      |
| 1      | Aniline                  | 8.80 |        | 0.00    | 93         | 223757   | 72.79         | 2.43       |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.94 | -0.01  | 0.00    | 93         | 174483   | 70.35         | 2.35       |   |      |
| 1      | Phenol                   | 8.86 | -0.02  | 0.00    | 94         | 210624   | 67.62         | 2.25       |   |      |
| 1      | 2-Chlorophenol           | 9.00 | -0.01  | 0.00    | 128        | 185250   | 68.98         | 2.30       |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.22 | -0.01  | 0.00    | 146        | 200777   | 70.49         | 2.35       |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.36 | -0.01  | 0.00    | 146        | 208498   | 71.87         | 2.40       |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.61 |        | 0.00    | 146        | 199172   | 72.53         | 2.42       |   |      |
| 1      | Benzyl Alcohol           | 9.62 | -0.02  | 0.00    | 108        | 124632   | 75.56         | 2.52       |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File: J:\MS07\DATA\061010\0610F008.D

Instrument: MS07

Acqu Date: 06/10/2010 19:38

Quant Date: 06/11/2010 08:23

Vial: 6

Run Type: LCS

Dilution: 1.0

Lab ID: KWG1005659-3

Soln Conc. Units: ug/ml

## Target Compounds

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name               | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|------------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | Bis(2-chloroisopropyl) Ether | 9.84  | -0.01  | 0.00    | 45         | 256884   | 62.43         | 2.08       |   |      |
| 1      | 2-Methylphenol               | 9.86  |        | 0.00    | 107        | 141140   | 69.98         | 2.33       |   |      |
| 1      | Hexachloroethane             | 10.16 | -0.01  | 0.00    | 117        | 87779    | 66.50         | 2.22       |   |      |
| 1      | N-Nitrosodi-n-propylamine    | 10.07 | -0.02  | 0.00    | 70         | 149473   | 74.04         | 2.47       |   |      |
| 1      | 4-Methylphenol               | 10.11 | -0.02  | 0.00    | 107        | 235051   | 76.74         | 2.56       |   |      |
| 1      | Nitrobenzene                 | 10.31 |        | 0.00    | 77         | 206788   | 73.99         | 2.47       |   |      |
| 2      | Isophorone                   | 10.71 | -0.02  | 0.00    | 82         | 431316   | 78.90         | 2.63       |   |      |
| 2      | 2-Nitrophenol                | 10.82 | -0.01  | 0.00    | 139        | 124089   | 82.38         | 2.75       |   |      |
| 2      | 2,4-Dimethylphenol           | 10.97 | -0.01  | 0.00    | 122        | 141299   | 70.16         | 2.34       |   |      |
| 2      | Bis(2-chloroethoxy)methane   | 11.11 |        | 0.00    | 93         | 238990   | 77.82         | 2.59       |   |      |
| 2      | 2,4-Dichlorophenol           | 11.25 | -0.01  | 0.00    | 162        | 182572   | 79.90         | 2.66       |   |      |
| 2      | Benzoic Acid                 | 11.25 | -0.08  | -0.01   | 122        | 101181   | 58.62         | 1.95       | J |      |
| 2      | 1,2,4-Trichlorobenzene       | 11.35 | -0.01  | 0.00    | 180        | 195167   | 80.45         | 2.68       |   |      |
| 2      | Naphthalene                  | 11.47 |        | 0.00    | 128        | 584273   | 80.36         | 2.68       |   |      |
| 2      | 4-Chloroaniline              | 11.60 | -0.01  | 0.00    | 127        | 254903   | 79.47         | 2.65       |   |      |
| 2      | Hexachlorobutadiene          | 11.69 | -0.01  | 0.00    | 225        | 122032   | 79.29         | 2.64       |   |      |
| 2      | 4-Chloro-3-methylphenol      | 12.45 |        | 0.00    | 107        | 216801   | 90.89         | 3.03       |   |      |
| 2      | 2-Methylnaphthalene          | 12.60 | -0.01  | 0.00    | 142        | 383044   | 82.80         | 2.76       |   |      |
| 3      | Hexachlorocyclopentadiene    | 12.88 | 0.01   | 0.00    | 237        | 53027    | 34.14         | 1.14       |   |      |
| 3      | 2,4,6-Trichlorophenol        | 13.10 | -0.01  | 0.00    | 196        | 148676   | 82.17         | 2.74       |   |      |
| 3      | 2,4,5-Trichlorophenol        | 13.17 | -0.01  | 0.00    | 196        | 173428   | 86.01         | 2.87       |   |      |
| 3      | 2-Chloronaphthalene          | 13.39 | -0.01  | 0.00    | 162        | 412439   | 81.31         | 2.71       |   |      |
| 3      | 2-Nitroaniline               | 13.60 |        | 0.00    | 65         | 130129   | 79.74         | 2.66       |   |      |
| 3      | Acenaphthylene               | 14.06 | -0.01  | 0.00    | 152        | 708977   | 90.72         | 3.02       |   |      |
| 3      | Dimethyl Phthalate           | 13.92 | -0.01  | 0.00    | 163        | 574429   | 96.34         | 3.21       |   |      |
| 3      | 2,6-Dinitrotoluene           | 14.01 | -0.01  | 0.00    | 165        | 120135   | 88.91         | 2.96       |   |      |
| 3      | Acenaphthene                 | 14.35 | -0.01  | 0.00    | 154        | 404330   | 90.66         | 3.02       |   |      |
| 3      | 3-Nitroaniline               | 14.27 | -0.02  | 0.00    | 138        | 119281   | 83.90         | 2.80       |   |      |
| 3      | 2,4-Dinitrophenol            | 14.45 | -0.01  | 0.00    | 184        | 54552    | 69.58         | 2.32       |   |      |
| 3      | Dibenzofuran                 | 14.63 | -0.01  | 0.00    | 168        | 626091   | 89.03         | 2.97       |   |      |
| 3      | 4-Nitrophenol                | 14.62 | -0.01  | 0.00    | 109        | 67653    | 87.88         | 2.93       |   |      |
| 3      | 2,4-Dinitrotoluene           | 14.66 |        | 0.00    | 165        | 153422   | 89.59         | 2.99       |   |      |
| 3      | 2,3,4,6-Tetrachlorophenol    | 14.86 | -0.01  | 0.00    | 232        | 127599   | 86.80         | 2.89       |   |      |
| 3      | Fluorene                     | 15.19 |        | 0.00    | 166        | 483737   | 91.80         | 3.06       |   |      |
| 3      | 4-Chlorophenyl Phenyl Ether  | 15.21 | -0.01  | 0.00    | 204        | 230129   | 85.30         | 2.84       |   |      |
| 3      | Diethyl Phthalate            | 15.07 | -0.01  | 0.00    | 149        | 563985   | 97.84         | 3.26       |   |      |
| 3      | 4-Nitroaniline               | 15.28 |        | 0.00    | 138        | 113013   | 91.84         | 3.06       |   |      |
| 3      | 2-Methyl-4,6-dinitrophenol   | 15.31 | -0.02  | 0.00    | 198        | 80180    | 86.08         | 2.87       |   |      |
| 3      | N-Nitrosodiphenylamine       | 15.41 | -0.01  | 0.00    | 169        | 321253   | 91.43         | 3.05       |   |      |
| 3      | 1,2-Diphenylhydrazine        | 15.47 |        | 0.00    | 77         | 507693   | 85.69         | 2.86       |   |      |
| 4      | 4-Bromophenyl Phenyl Ether   | 16.00 |        | 0.00    | 248        | 137690   | 100.92        | 3.36       |   |      |
| 4      | Hexachlorobenzene            | 16.08 |        | 0.00    | 284        | 160227   | 101.32        | 3.38       |   |      |

U: Undetected at or above MDL

J: Analyte detected above MDL, but below MRL

B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL

N: Presumptive evidence of compound

D: Result from dilution

m: Manual integration performed

c: Compound manually deleted

NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria

#: Acceptance criteria not applicable

?: Insufficient information to determine acceptance

e: Result &gt;= MRL, but MRL less than low point of ICAL

c: check for co-elution

Data File: J:\MS07\DATA\061010\0610F008.D  
 Acqu Date: 06/10/2010 19:38  
 Run Type: LCS  
 Lab ID: KWG1005659-3

Quant Date: 06/11/2010 08:23

Instrument: MS07  
 Vial: 6  
 Dilution: 1.0  
 Soln Conc. Units: ug/ml

**Target Compounds**

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name                  | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q  | Rpt? |
|--------|---------------------------------|-------|--------|---------|------------|----------|---------------|------------|----|------|
| 4      | Pentachlorophenol               | 16.41 | -0.01  | 0.00    | 266        | 74713    | 84.07         | 2.80       |    |      |
| 4      | Phenanthrene                    | 16.73 | -0.01  | 0.00    | 178        | 569637   | 94.74         | 3.16       |    |      |
| 4      | Anthracene                      | 16.82 | -0.01  | 0.00    | 178        | 597827   | 94.57         | 3.15       |    |      |
| 4      | Carbazole                       | 17.10 | -0.01  | 0.00    | 167        | 504759   | 97.82         | 3.26       |    |      |
| 4      | Di-n-butyl Phthalate            | 17.72 | -0.01  | 0.00    | 149        | 675209   | 98.09         | 3.27       |    |      |
| 4      | Fluoranthene                    | 18.66 |        | 0.00    | 202        | 534529   | 98.05         | 3.27       |    |      |
| 5      | Benzidine                       | 18.92 |        | 0.00    | 184        | 99488    | 51.26         | 1.71       | J  |      |
| 5      | Pyrene                          | 19.02 |        | 0.00    | 202        | 542145   | 87.87         | 2.93       |    |      |
| 5      | Butyl Benzyl Phthalate          | 20.14 | -0.01  | 0.00    | 149        | 308479   | 87.74         | 2.92       |    |      |
| 5      | 3,3'-Dichlorobenzidine          | 21.10 | -0.01  | 0.00    | 252        | 223115   | 92.37         | 3.08       |    |      |
| 5      | Benz(a)anthracene               | 21.10 | -0.01  | 0.00    | 228        | 552848   | 101.77        | 3.39       |    |      |
| 5      | Chrysene                        | 21.18 | -0.01  | 0.00    | 228        | 518543   | 98.60         | 3.29       |    |      |
| 5      | Bis(2-ethylhexyl) Phthalate     | 21.29 | -0.01  | 0.00    | 149        | 471635   | 94.26         | 3.14       |    |      |
| 6      | Di-n-octyl Phthalate            | 22.76 | -0.01  | 0.00    | 149        | 890345   | 95.27         | 3.18       |    |      |
| 6      | Benzo(b)fluoranthene            | 23.45 |        | 0.00    | 252        | 506804   | 100.57        | 3.35       |    |      |
| 6      | Benzo(k)fluoranthene            | 23.51 | -0.02  | 0.00    | 252        | 529453   | 101.24        | 3.37       |    |      |
| 6      | Benzo(a)pyrene                  | 24.18 | -0.01  | 0.00    | 252        | 442652   | 105.76        | 3.53       |    |      |
| 6      | Indeno(1,2,3-cd)pyrene          | 26.76 | -0.02  | 0.00    | 276        | 342992   | 94.63         | 3.15       |    |      |
| 6      | Dibenz(a,h)anthracene           | 26.84 | -0.01  | 0.00    | 278        | 372669   | 96.52         | 3.22       |    |      |
| 6      | Benzo(g,h,i)perylene            | 27.33 | -0.02  | 0.00    | 276        | 378148   | 96.65         | 3.22       |    |      |
|        | Hexachlorocyclohexane           |       |        |         | 0          | 0        |               | 0.67       | UJ | NR   |
|        | 1,3,5-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,2,3,5-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,2,3-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,2,3,4-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | Acrylamide                      |       |        |         | 0          | 0        |               | 50         | U  | NR   |
|        | Diisobutyl Phthalate            |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | HPMO                            |       |        |         | 0          | 0        |               | 2.0        | UJ | NR   |
|        | OPMO                            |       |        |         | 0          | 0        |               | 2.0        | UJ | NR   |
|        | 1-Methylnaphthalene             |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 2,3,7,8-Tetrachlorodibenzo-p-di |       |        |         | 0          | 0        |               | 0.67       | UJ | NR   |

Prep Amount: 30.00 g Dilution: 1.0  
 Prep Final Vol: 1 mL Unit Factor: 1  
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:04 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 82022    | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.43 | 136  | 303037   | 40.00 | ug/ml | -0.02    |
| 34) Acenaphthene-d10      | 14.30 | 164  | 175397   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 226308   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.12 | 240  | 231145   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.30 | 264  | 195621   | 40.00 | ug/ml | 0.00     |

#### System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 191825   | 87.97    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 58.65% |
| 7) Phenol-d6             | 8.84    | 99    | 302737   | 99.54    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 66.36% |
| 19) Nitrobenzene-d5      | 10.27   | 82    | 220121   | 74.09    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 74.09% |
| 38) 2-Fluorobiphenyl     | 13.22   | 172   | 433920   | 75.46    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 75.46% |
| 59) 2,4,6-Tribromophenol | 15.58   | 330   | 131013   | 142.83   | ug/ml | -0.02  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 95.22% |
| 71) Terphenyl-d14        | 19.31   | 244   | 326906   | 92.37    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 92.37% |

#### Target Compounds

|                                |       |     |         |       |       | Qvalue |
|--------------------------------|-------|-----|---------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.11  | 42  | 125679m | 64.13 | ug/ml |        |
| 3) Pyridine                    | 4.15  | 79  | 246331m | 88.70 | ug/ml |        |
| 5) Aniline                     | 8.80  | 93  | 223757  | 72.79 | ug/ml | 76     |
| 6) Bis(2-chloroethyl) Ether    | 8.94  | 93  | 174483  | 70.35 | ug/ml | 95     |
| 8) Phenol                      | 8.86  | 94  | 210624  | 67.62 | ug/ml | 98     |
| 9) 2-Chlorophenol              | 9.00  | 128 | 185250  | 68.98 | ug/ml | 89     |
| 10) 1,3-Dichlorobenzene        | 9.22  | 146 | 200777  | 70.49 | ug/ml | 100    |
| 11) 1,4-Dichlorobenzene        | 9.36  | 146 | 208498  | 71.87 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.61  | 146 | 199172  | 72.53 | ug/ml | 100    |
| 13) Benzyl Alcohol             | 9.62  | 108 | 124632  | 75.56 | ug/ml | 97     |
| 14) Bis(2-chloroisopropyl) Eth | 9.84  | 45  | 256884  | 62.43 | ug/ml | 81     |
| 15) 2-Methylphenol             | 9.86  | 107 | 141140  | 69.98 | ug/ml | 99     |
| 16) Hexachloroethane           | 10.16 | 117 | 87779   | 66.50 | ug/ml | 97     |
| 17) N-Nitrosodi-n-propylamine  | 10.07 | 70  | 149473  | 74.04 | ug/ml | 89     |
| 18) 4-Methylphenol             | 10.11 | 107 | 235051  | 76.74 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.31 | 77  | 206788  | 73.99 | ug/ml | 98     |
| 22) Isophorone                 | 10.71 | 82  | 431316  | 78.90 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.82 | 139 | 124089  | 82.38 | ug/ml | 92     |
| 24) 2,4-Dimethylphenol         | 10.97 | 122 | 141299  | 70.16 | ug/ml | 99     |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93  | 238990  | 77.82 | ug/ml | 100    |

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

Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:04 2010

Vial: 6  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit   | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.25 | 162  | 182572   | 79.90  | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.25 | 122  | 101181   | 58.62  | ug/ml  | 97     |
| 28) 1,2,4-Trichlorobenzene     | 11.35 | 180  | 195167   | 80.45  | ug/ml  | 99     |
| 29) Naphthalene                | 11.47 | 128  | 584273   | 80.36  | ug/ml  | 100    |
| 30) 4-Chloroaniline            | 11.60 | 127  | 254903   | 79.47  | ug/ml  | 99     |
| 31) Hexachlorobutadiene        | 11.69 | 225  | 122032   | 79.29  | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.45 | 107  | 216801   | 90.89  | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.60 | 142  | 383044   | 82.80  | ug/ml  | 98     |
| 35) Hexachlorocyclopentadiene  | 12.88 | 237  | 53027    | 34.14  | ug/ml  | 99     |
| 36) 2,4,6-Trichlorophenol      | 13.10 | 196  | 148676   | 82.17  | ug/ml  | 100    |
| 37) 2,4,5-Trichlorophenol      | 13.17 | 196  | 173428   | 86.01  | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.39 | 162  | 412439   | 81.31  | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 130129   | 79.74  | ug/ml  | 94     |
| 41) Acenaphthylene             | 14.06 | 152  | 708977   | 90.72  | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.92 | 163  | 574429   | 96.34  | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.01 | 165  | 120135   | 88.91  | ug/ml  | 77     |
| 44) Acenaphthene               | 14.35 | 154  | 404330   | 90.66  | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.27 | 138  | 119281   | 83.90  | ug/ml  | 99     |
| 46) 2,4-Dinitrophenol          | 14.45 | 184  | 54552    | 69.58  | ug/ml  | 93     |
| 47) Dibenzofuran               | 14.63 | 168  | 626091   | 89.03  | ug/ml  | 96     |
| 48) 4-Nitrophenol              | 14.62 | 109  | 67653    | 87.88  | ug/ml  | 98     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 153422   | 89.59  | ug/ml  | 77     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 127599   | 86.80  | ug/ml  | 92     |
| 51) Fluorene                   | 15.19 | 166  | 483737   | 91.80  | ug/ml  | 99     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.21 | 204  | 230129   | 85.30  | ug/ml  | 95     |
| 53) Diethyl Phthalate          | 15.07 | 149  | 563985   | 97.84  | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.28 | 138  | 113013   | 91.84  | ug/ml  | 95     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.31 | 198  | 80180    | 86.08  | ug/ml  | 97     |
| 56) N-Nitrosodiphenylamine     | 15.41 | 169  | 321253   | 91.43  | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 507693   | 85.69  | ug/ml  | 95     |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 137690   | 100.92 | ug/ml  | 91     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 160227   | 101.32 | ug/ml  | 89     |
| 62) Pentachlorophenol          | 16.41 | 266  | 74713    | 84.07  | ug/ml  | 97     |
| 63) Phenanthrene               | 16.73 | 178  | 569637   | 94.74  | ug/ml  | 99     |
| 64) Anthracene                 | 16.82 | 178  | 597827   | 94.57  | ug/ml  | 100    |
| 65) Carbazole                  | 17.10 | 167  | 504759   | 97.82  | ug/ml  | 100    |
| 66) Di-n-butyl Phthalate       | 17.72 | 149  | 675209   | 98.09  | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 534529   | 98.05  | ug/ml  | 97     |
| 69) Benzidine                  | 18.92 | 184  | 99488    | 51.26  | ug/ml  | 96     |
| 70) Pyrene                     | 19.02 | 202  | 542145   | 87.87  | ug/ml  | 100    |
| 72) Butyl Benzyl Phthalate     | 20.14 | 149  | 308479   | 87.74  | ug/ml  | 94     |

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

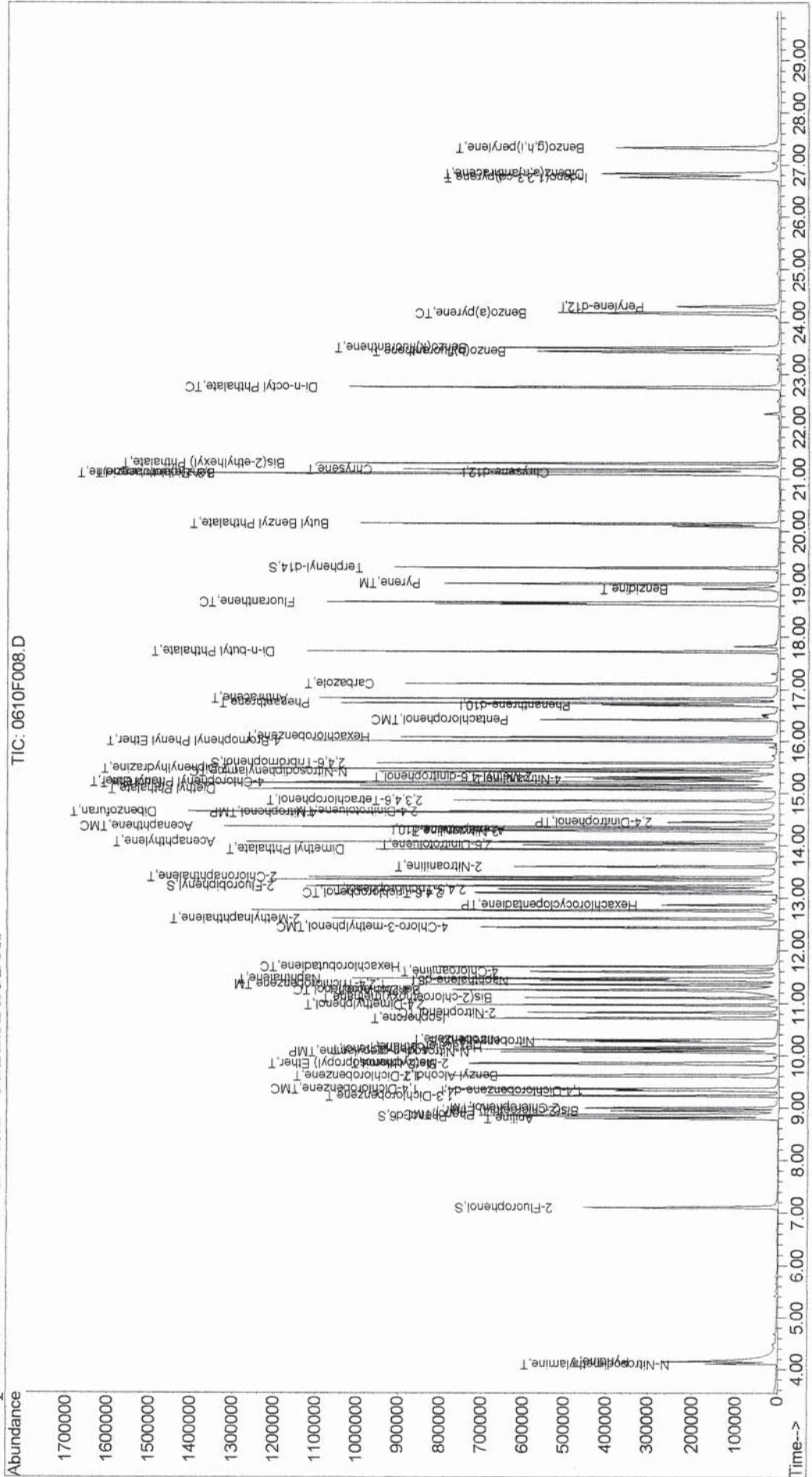


Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:23 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx\_5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration



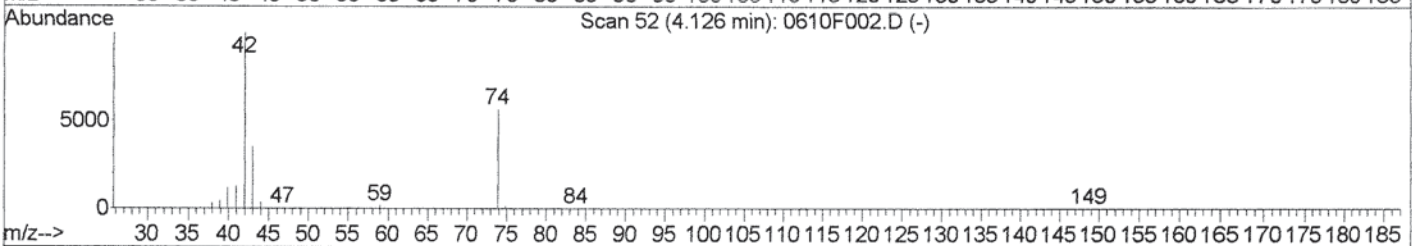
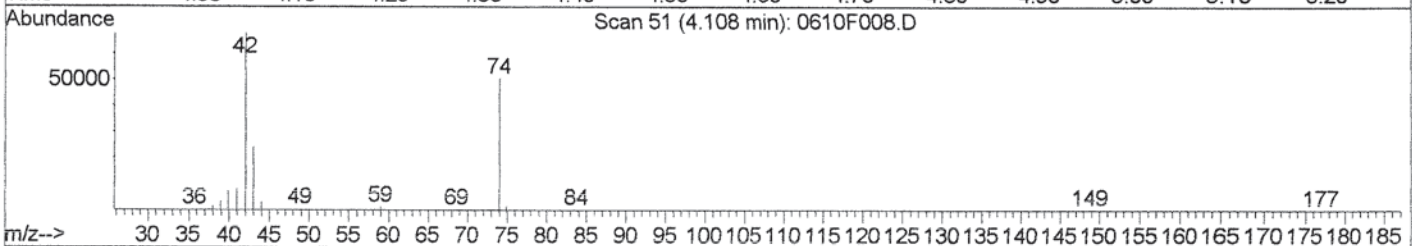
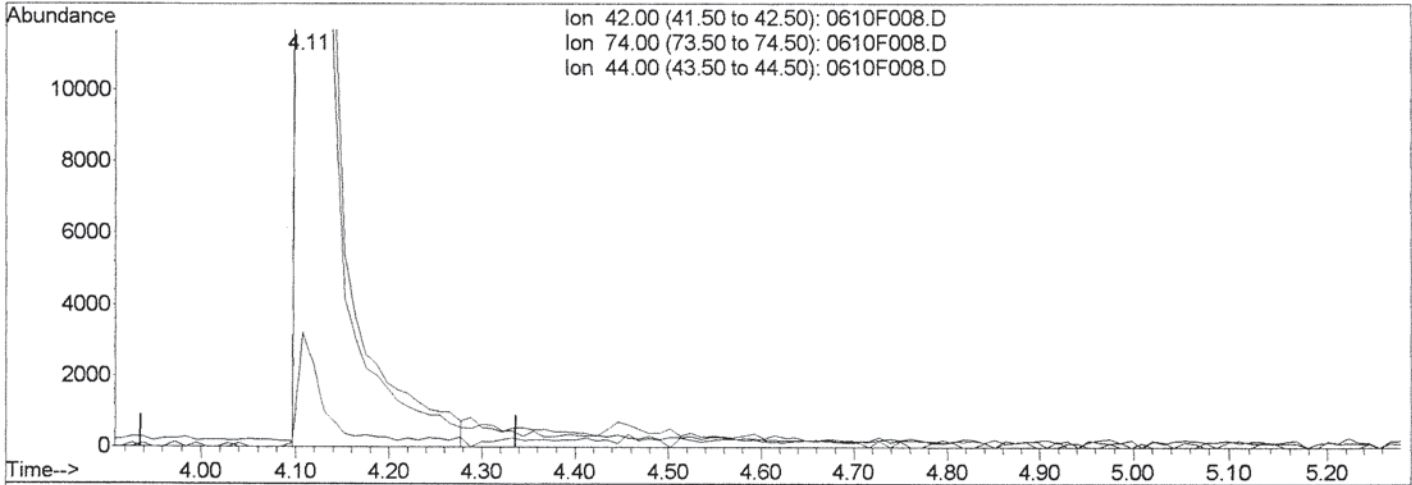
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:09 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F008.D

(2) N-Nitrosodimethylamine (T)

4.11min 61.94ug/ml

response 121392

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 74.17 |
| 44.00 | 4.40  | 4.39  |
| 0.00  | 0.00  | 0.00  |



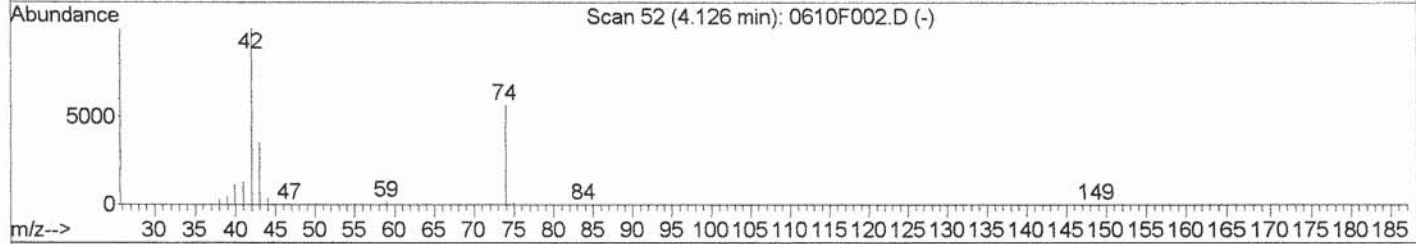
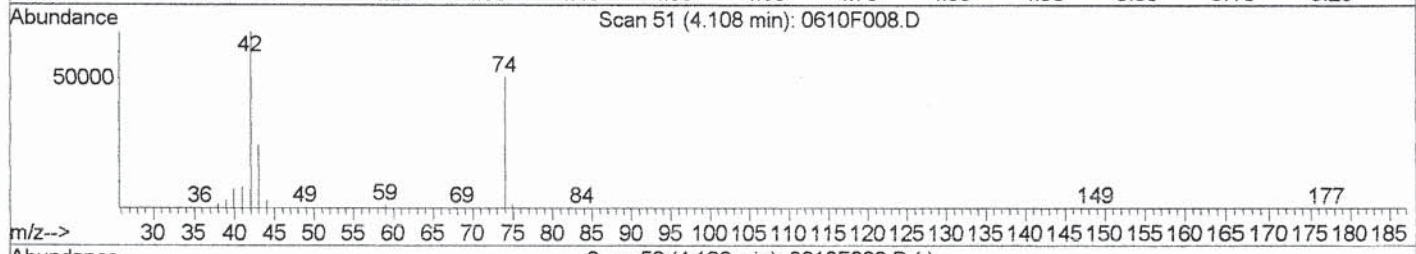
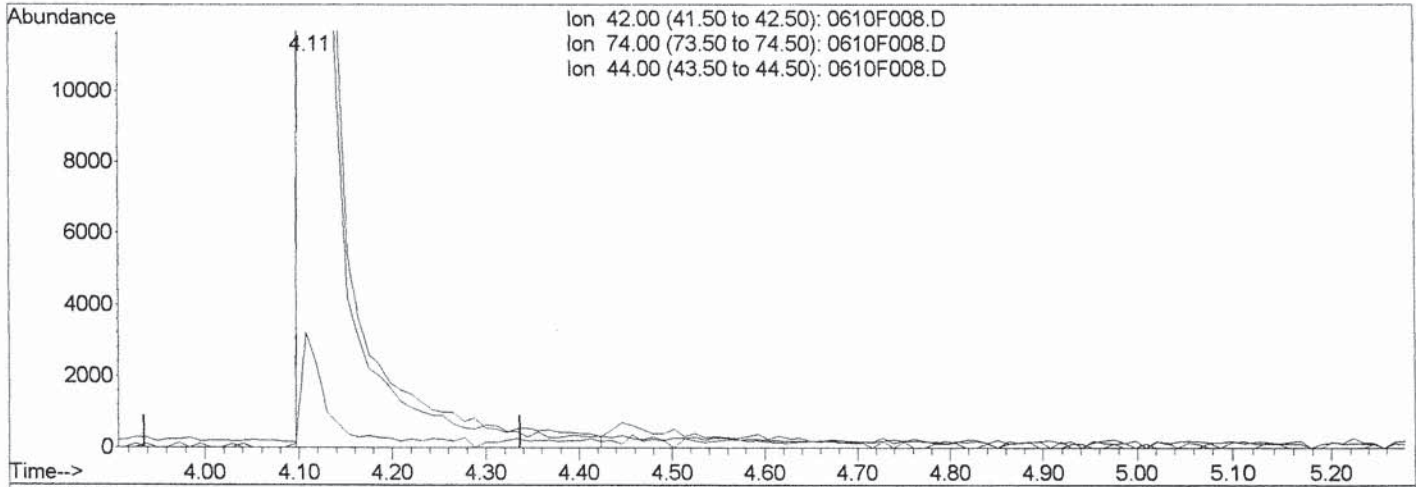
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:23 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F008.D

(2) N-Nitrosodimethylamine (T)

4.11min 64.13ug/ml m

response 125679

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 74.18 |
| 44.00 | 4.40  | 4.71  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-11-10*

*LB*  
*4/14/10*

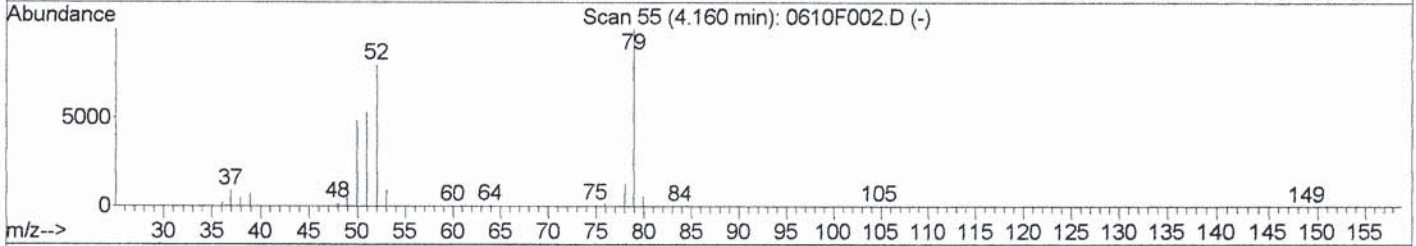
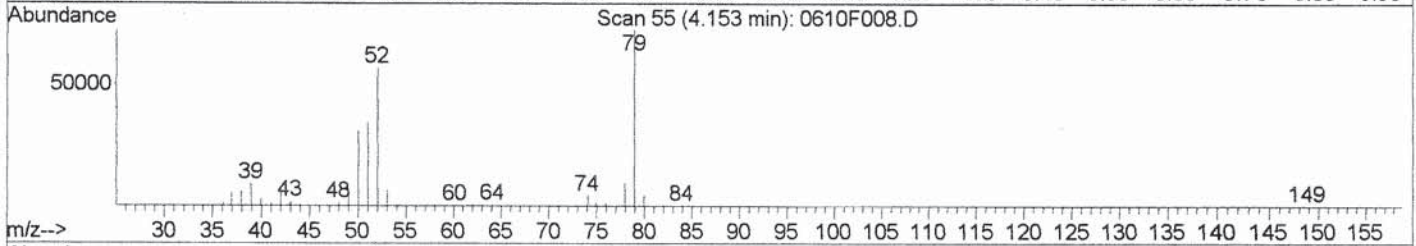
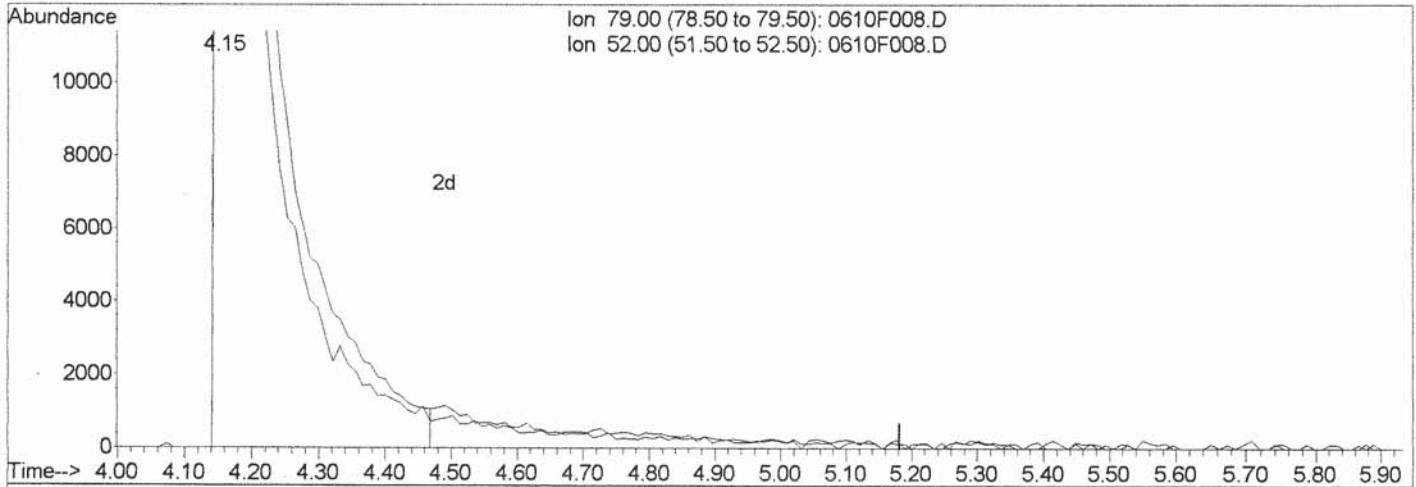
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:23 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F008.D

(3) Pyridine (T)

4.15min 83.30ug/ml

response 231337

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.53 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

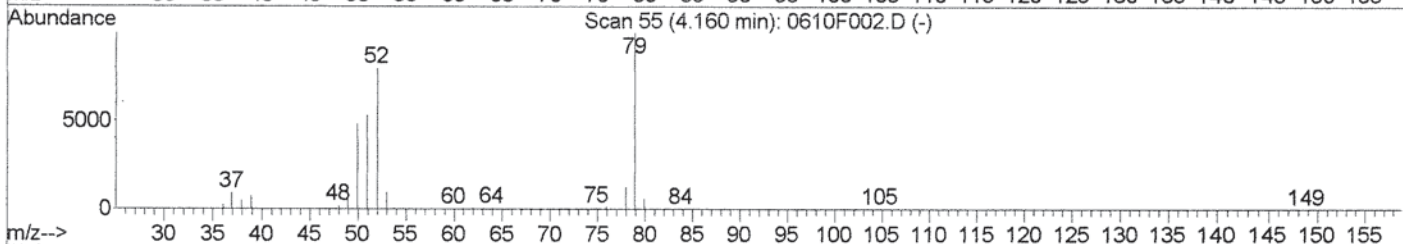
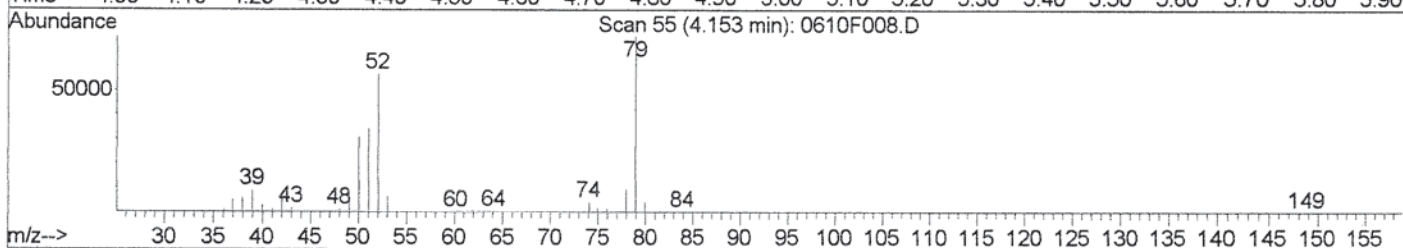
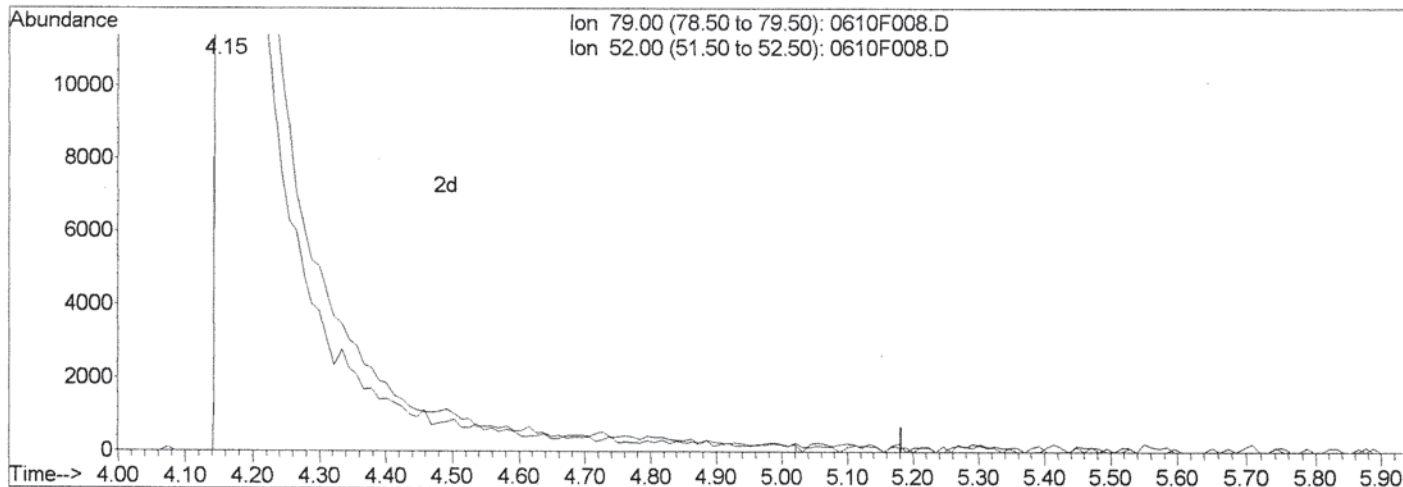


Data File : J:\MS07\DATA\061010\0610F008.D  
 Acq On : 10 Jun 2010 7:38 pm  
 Sample : KQ5080-3 LCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:23 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F008.D

(3) Pyridine (T)

4.15min 88.70ug/ml m

response 246331

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.45 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes:* Jc  
 M 6-11-10

*Handwritten notes:* LB  
 4/11/10

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601  
**Sample Matrix:** Misc. solid

**Service Request:** K1005244  
**Date Collected:** NA  
**Date Received:** NA

## Semi-Volatile Organic Compounds by GC/MS

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** KWG1005659-4  
**Extraction Method:** EPA 3541  
**Analysis Method:** 8270C

**Units:** mg/Kg  
**Basis:** Dry  
**Level:** Low

| Analyte Name                 | Result | Q | MRL  | MDL    | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|------------------------------|--------|---|------|--------|-----------------|----------------|---------------|----------------|------|
| N-Nitrosodimethylamine       | 2.41   |   | 2.0  | 0.026  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Aniline                      | 2.55   |   | 1.0  | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethyl) Ether     | 2.52   |   | 0.34 | 0.012  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenol                       | 2.39   |   | 0.34 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chlorophenol               | 2.38   |   | 0.34 | 0.0099 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,3-Dichlorobenzene          | 2.37   |   | 0.34 | 0.019  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,4-Dichlorobenzene          | 2.38   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2-Dichlorobenzene          | 2.40   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzyl Alcohol               | 2.49   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroisopropyl) Ether | 2.24   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylphenol               | 2.46   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachloroethane             | 2.29   |   | 0.34 | 0.022  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodi-n-propylamine    | 2.63   |   | 0.34 | 0.020  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Methylphenol†              | 2.59   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Nitrobenzene                 | 2.45   |   | 0.34 | 0.027  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Isophorone                   | 2.49   |   | 0.34 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitrophenol                | 2.48   |   | 0.34 | 0.014  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dimethylphenol           | 2.02   |   | 0.34 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-chloroethoxy)methane   | 2.40   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dichlorophenol           | 2.52   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzoic Acid                 | 1.52   | J | 2.0  | 0.14   | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 1,2,4-Trichlorobenzene       | 2.66   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Naphthalene                  | 2.62   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloroaniline              | 2.71   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobutadiene          | 2.48   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chloro-3-methylphenol      | 2.61   |   | 0.34 | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methylnaphthalene          | 2.75   |   | 0.34 | 0.011  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorocyclopentadiene    | 1.12   |   | 0.34 | 0.013  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,6-Trichlorophenol        | 2.71   |   | 0.34 | 0.015  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4,5-Trichlorophenol        | 2.63   |   | 0.34 | 0.018  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Chloronaphthalene          | 2.61   |   | 0.34 | 0.010  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Nitroaniline               | 2.64   |   | 2.0  | 0.017  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthylene               | 2.74   |   | 0.34 | 0.016  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments:



## Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

## Semi-Volatile Organic Compounds by GC/MS

Sample Name: Duplicate Lab Control Sample  
 Lab Code: KWG1005659-4  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name                | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Dimethyl Phthalate          | 2.83   |   | 0.34 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,6-Dinitrotoluene          | 2.72   |   | 0.34 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Acenaphthene                | 2.85   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3-Nitroaniline              | 2.65   |   | 2.0  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrophenol           | 1.94   | J | 2.0  | 0.12  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenzofuran                | 2.51   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitrophenol               | 2.54   |   | 2.0  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2,4-Dinitrotoluene          | 2.77   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluorene                    | 2.94   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Chlorophenyl Phenyl Ether | 2.85   |   | 0.34 | 0.016 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Diethyl Phthalate           | 2.91   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Nitroaniline              | 2.73   |   | 2.0  | 0.18  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 2-Methyl-4,6-dinitrophenol  | 2.49   |   | 2.0  | 0.15  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| N-Nitrosodiphenylamine      | 2.68   |   | 0.34 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 4-Bromophenyl Phenyl Ether  | 2.90   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Hexachlorobenzene           | 2.94   |   | 0.34 | 0.015 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pentachlorophenol           | 2.31   |   | 2.0  | 0.13  | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Phenanthrene                | 2.96   |   | 0.34 | 0.010 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Anthracene                  | 2.60   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-butyl Phthalate        | 2.97   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Fluoranthene                | 2.91   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Pyrene                      | 2.78   |   | 0.34 | 0.014 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Butyl Benzyl Phthalate      | 2.64   |   | 0.34 | 0.017 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| 3,3'-Dichlorobenzidine      | 2.62   |   | 2.0  | 0.027 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benz(a)anthracene           | 2.92   |   | 0.34 | 0.013 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Chrysene                    | 2.97   |   | 0.34 | 0.012 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Bis(2-ethylhexyl) Phthalate | 2.85   |   | 0.34 | 0.019 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Di-n-octyl Phthalate        | 2.77   |   | 0.34 | 0.024 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(b)fluoranthene        | 2.94   |   | 0.34 | 0.018 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(k)fluoranthene        | 2.99   |   | 0.34 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Benzo(a)pyrene              | 3.23   |   | 0.34 | 0.020 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Indeno(1,2,3-cd)pyrene      | 2.84   |   | 0.34 | 0.039 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |
| Dibenz(a,h)anthracene       | 2.76   |   | 0.34 | 0.028 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

Comments: \_\_\_\_\_

Analytical Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601  
 Sample Matrix: Misc. solid

Service Request: K1005244  
 Date Collected: NA  
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Duplicate Lab Control Sample  
 Lab Code: KWG1005659-4  
 Extraction Method: EPA 3541  
 Analysis Method: 8270C

Units: mg/Kg  
 Basis: Dry  
 Level: Low

| Analyte Name         | Result | Q | MRL  | MDL   | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|----------------------|--------|---|------|-------|-----------------|----------------|---------------|----------------|------|
| Benzo(g,h,i)perylene | 2.69   |   | 0.34 | 0.021 | 1               | 06/01/10       | 06/10/10      | KWG1005659     |      |

| Surrogate Name       | %Rec | Control Limits | Date Analyzed | Note       |
|----------------------|------|----------------|---------------|------------|
| 2-Fluorophenol       | 64   | 20-83          | 06/10/10      | Acceptable |
| Phenol-d6            | 74   | 23-90          | 06/10/10      | Acceptable |
| Nitrobenzene-d5      | 76   | 29-100         | 06/10/10      | Acceptable |
| 2-Fluorobiphenyl     | 77   | 32-104         | 06/10/10      | Acceptable |
| 2,4,6-Tribromophenol | 85   | 20-123         | 06/10/10      | Acceptable |
| Terphenyl-d14        | 87   | 37-133         | 06/10/10      | Acceptable |

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F009.D  
**Lab ID:** KWG1005659-4  
**RunType:** DLCS  
**Matrix:** MISC. SOLID

**Date Acquired:** 06/10/2010 20:18  
**Date Quantitated:** 06/11/2010 08:24  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| Analytical Holding Time               | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Calibration Verification Pass/Fail    | NA     | NA        | NA         | x    |      |
| Continuing Calibration Recovery       | NA     | NA        | NA         |      | x    |
| Continuing Calibration Minimum RF     | NA     | NA        | NA         | x    |      |
| Continuing Calibration SPCC/CCC       | NA     | NA        | NA         | x    |      |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Surrogates                            | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Relative Retention Time               | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Std MRL Unsupported by ICAL           | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |
| Overdiluted Analysis                  | NA     | NA        | NA         | x    |      |

5175  
 5244  
 5282  
 5284  
 5353

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | NTJ               |
| Continuing Calibration Recovery | Benzidine    | -35.0  | NA        | 30         | J                 |

Primary Review: M 6/11/10  
 Secondary Review: LB 6/11/10

# Quantitation Report

|                      |               |               |             |
|----------------------|---------------|---------------|-------------|
| Bottle ID:           | Tier:         | Matrix:       | MISC. SOLID |
| Prod Code: 8270C SVO | Collect Date: | Receive Date: | 06/10/2010  |

|                          |                       |               |
|--------------------------|-----------------------|---------------|
| Analysis Lot: KWG1005663 | Prep Lot: KWG1005659  | Report Group: |
| Analysis Method: 8270C   | Prep Method: EPA 3541 |               |
| Prep Ref: 918272         | Prep Date: 06/01/2010 |               |

|   |                         |
|---|-------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525 |
| Title:  |                         |
| Tune Ref: J:\MS07\DATA\061010\0610F001.D          | Method ID: MJ250        |
| MB Ref: J:\MS07\DATA\061010\0610F007.D            | Quant based on Method   |

|   |                              |
|---|------------------------------|
| Data File: J:\MS07\DATA\061010\0610F009.D | Instrument: MS07             |
| Acqu Date: 06/10/2010 20:18               | Quant Date: 06/11/2010 08:24 |
| Run Type: DLCS                            | Vial: 7                      |
| Lab ID: KWG1005659-4                      | Dilution: 1.0                |
|   | Soln Conc. Units: ug/ml      |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | 0.00   | 152        | 82853    | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.44 | 0.00   | 136        | 328582   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.29 | 0.00   | 164        | 180044   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.69 | -0.01  | 188        | 242964   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.12 | -0.01  | 240        | 239385   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.30 | -0.01  | 264        | 200450   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.10  | -0.01  | 0.00    | 112        | 210469   | 95.55         | 64   | 20-83       | OK   |
| 1      | Phenol-d6            | 8.84  | -0.02  | 0.00    | 99         | 343181   | 111.71        | 74   | 23-90       | OK   |
| 1      | Nitrobenzene-d5      | 10.27 | -0.01  | 0.00    | 82         | 228880   | 76.27         | 76   | 29-100      | OK   |
| 3      | 2-Fluorobiphenyl     | 13.23 | 0.00   | 0.00    | 172        | 455315   | 77.14         | 77   | 32-104      | OK   |
| 4      | 2,4,6-Tribromophenol | 15.59 | 0.00   | 0.00    | 330        | 125893   | 127.84        | 85   | 20-123      | OK   |
| 5      | Terphenyl-d14        | 19.30 | -0.02  | 0.00    | 244        | 317261   | 86.55         | 87   | 37-133      | OK   |

## Target Compounds

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.11 | -0.02  | 0.00    | 42         | 143290m  | 72.38         | 2.41       |   |      |
| 1      | Pyridine                 | 4.16 |        | 0.00    | 79         | 253679m  | 90.43         | 3.01       |   |      |
| 1      | Aniline                  | 8.79 | -0.01  | 0.00    | 93         | 237134   | 76.37         | 2.55       |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.94 | -0.01  | 0.00    | 93         | 189151   | 75.50         | 2.52       |   |      |
| 1      | Phenol                   | 8.86 | -0.02  | 0.00    | 94         | 225849   | 71.78         | 2.39       |   |      |
| 1      | 2-Chlorophenol           | 8.99 | -0.02  | 0.00    | 128        | 193856   | 71.46         | 2.38       |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.23 |        | 0.00    | 146        | 204276   | 71.00         | 2.37       |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.35 | -0.02  | 0.00    | 146        | 209424   | 71.46         | 2.38       |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.60 | -0.01  | 0.00    | 146        | 199706   | 71.99         | 2.40       |   |      |
| 1      | Benzyl Alcohol           | 9.62 | -0.02  | 0.00    | 108        | 124648   | 74.81         | 2.49       |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



|            |                                |                   |                  |
|------------|--------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F009.D | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 20:18               | Quant Date:       | 06/11/2010 08:24 |
| Run Type:  | DLCS                           | Vial:             | 7                |
| Lab ID:    | KWG1005659-4                   | Dilution:         | 1.0              |
|            |                                | Soln Conc. Units: | ug/ml            |

| Target Compounds |                              | Final Conc. Units: |        | mg/Kg Wet Weight |            |          |               |            |   |      |
|------------------|------------------------------|--------------------|--------|------------------|------------|----------|---------------|------------|---|------|
| IS Ref           | Parameter Name               | RT                 | RT Dev | RRT Dev          | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
| 1                | Bis(2-chloroisopropyl) Ether | 9.85               |        | 0.00             | 45         | 279100   | 67.15         | 2.24       |   |      |
| 1                | 2-Methylphenol               | 9.85               | -0.01  | 0.00             | 107        | 150062   | 73.66         | 2.46       |   |      |
| 1                | Hexachloroethane             | 10.15              | -0.02  | 0.00             | 117        | 91420    | 68.57         | 2.29       |   |      |
| 1                | N-Nitrosodi-n-propylamine    | 10.08              | -0.01  | 0.00             | 70         | 160975   | 78.94         | 2.63       |   |      |
| 1                | 4-Methylphenol               | 10.11              | -0.02  | 0.00             | 107        | 240058   | 77.59         | 2.59       |   |      |
| 1                | Nitrobenzene                 | 10.30              | -0.01  | 0.00             | 77         | 207201   | 73.40         | 2.45       |   |      |
| 2                | Isophorone                   | 10.72              | -0.01  | 0.00             | 82         | 441943   | 74.56         | 2.49       |   |      |
| 2                | 2-Nitrophenol                | 10.83              |        | 0.00             | 139        | 121531   | 74.41         | 2.48       |   |      |
| 2                | 2,4-Dimethylphenol           | 10.97              | -0.01  | 0.00             | 122        | 132358   | 60.61         | 2.02       |   |      |
| 2                | Bis(2-chloroethoxy)methane   | 11.10              | -0.01  | 0.00             | 93         | 239372   | 71.89         | 2.40       |   |      |
| 2                | 2,4-Dichlorophenol           | 11.25              | -0.01  | 0.00             | 162        | 187067   | 75.50         | 2.52       |   |      |
| 2                | Benzoic Acid                 | 11.25              | -0.08  | -0.01            | 122        | 85401    | 45.63         | 1.52       | J |      |
| 2                | 1,2,4-Trichlorobenzene       | 11.35              | -0.01  | 0.00             | 180        | 209692   | 79.72         | 2.66       |   |      |
| 2                | Naphthalene                  | 11.47              |        | 0.00             | 128        | 619857   | 78.63         | 2.62       |   |      |
| 2                | 4-Chloroaniline              | 11.60              | -0.01  | 0.00             | 127        | 282581   | 81.25         | 2.71       |   |      |
| 2                | Hexachlorobutadiene          | 11.70              |        | 0.00             | 225        | 124316   | 74.50         | 2.48       |   |      |
| 2                | 4-Chloro-3-methylphenol      | 12.44              | -0.01  | 0.00             | 107        | 202335   | 78.23         | 2.61       |   |      |
| 2                | 2-Methylnaphthalene          | 12.61              |        | 0.00             | 142        | 413806   | 82.49         | 2.75       |   |      |
| 3                | Hexachlorocyclopentadiene    | 12.87              |        | 0.00             | 237        | 53121    | 33.51         | 1.12       |   |      |
| 3                | 2,4,6-Trichlorophenol        | 13.10              | -0.01  | 0.00             | 196        | 151050   | 81.32         | 2.71       |   |      |
| 3                | 2,4,5-Trichlorophenol        | 13.16              | -0.02  | 0.00             | 196        | 163096   | 78.80         | 2.63       |   |      |
| 3                | 2-Chloronaphthalene          | 13.40              |        | 0.00             | 162        | 408248   | 78.40         | 2.61       |   |      |
| 3                | 2-Nitroaniline               | 13.60              |        | 0.00             | 65         | 132723   | 79.23         | 2.64       |   |      |
| 3                | Acenaphthylene               | 14.06              | -0.01  | 0.00             | 152        | 659485   | 82.21         | 2.74       |   |      |
| 3                | Dimethyl Phthalate           | 13.92              | -0.01  | 0.00             | 163        | 519704   | 84.91         | 2.83       |   |      |
| 3                | 2,6-Dinitrotoluene           | 14.01              | -0.01  | 0.00             | 165        | 112990   | 81.46         | 2.72       |   |      |
| 3                | Acenaphthene                 | 14.35              | -0.01  | 0.00             | 154        | 391348   | 85.48         | 2.85       |   |      |
| 3                | 3-Nitroaniline               | 14.28              | -0.01  | 0.00             | 138        | 116093   | 79.55         | 2.65       |   |      |
| 3                | 2,4-Dinitrophenol            | 14.45              | -0.01  | 0.00             | 184        | 46812    | 58.17         | 1.94       | J |      |
| 3                | Dibenzofuran                 | 14.63              | -0.01  | 0.00             | 168        | 543973   | 75.36         | 2.51       |   |      |
| 3                | 4-Nitrophenol                | 14.63              |        | 0.00             | 109        | 60258    | 76.26         | 2.54       |   |      |
| 3                | 2,4-Dinitrotoluene           | 14.66              |        | 0.00             | 165        | 146174   | 83.15         | 2.77       |   |      |
| 3                | 2,3,4,6-Tetrachlorophenol    | 14.85              | -0.02  | 0.00             | 232        | 122873   | 81.42         | 2.71       |   |      |
| 3                | Fluorene                     | 15.19              |        | 0.00             | 166        | 477154   | 88.21         | 2.94       |   |      |
| 3                | 4-Chlorophenyl Phenyl Ether  | 15.21              | -0.01  | 0.00             | 204        | 236519   | 85.41         | 2.85       |   |      |
| 3                | Diethyl Phthalate            | 15.07              | -0.01  | 0.00             | 149        | 517364   | 87.43         | 2.91       |   |      |
| 3                | 4-Nitroaniline               | 15.27              | -0.01  | 0.00             | 138        | 103461   | 81.91         | 2.73       |   |      |
| 3                | 2-Methyl-4,6-dinitrophenol   | 15.32              | -0.01  | 0.00             | 198        | 71472    | 74.76         | 2.49       |   |      |
| 3                | N-Nitrosodiphenylamine       | 15.42              |        | 0.00             | 169        | 290316   | 80.49         | 2.68       |   |      |
| 3                | 1,2-Diphenylhydrazine        | 15.46              | -0.01  | 0.00             | 77         | 481810m  | 79.22         | 2.64       |   |      |
| 4                | 4-Bromophenyl Phenyl Ether   | 16.00              |        | 0.00             | 248        | 127418   | 86.98         | 2.90       |   |      |
| 4                | Hexachlorobenzene            | 16.07              | -0.01  | 0.00             | 284        | 149546   | 88.08         | 2.94       |   |      |

U: Undetected at or above MDL  
J: Analyte detected above MDL, but below MRL  
B: Hit above MRL also found in Method Blank  
E: Analyte concentration above high point of ICAI  
N: Presumptive evidence of compound

D: Result from dilution  
m: Manual integration performed  
C: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAI  
c: check for co-elution

|            |                                |                   |                  |
|------------|--------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F009.D | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 20:18               | Quant Date:       | 06/11/2010 08:24 |
| Run Type:  | DLCS                           | Vial:             | 7                |
| Lab ID:    | KWG1005659-4                   | Dilution:         | 1.0              |
|            |                                | Soln Conc. Units: | ug/ml            |

**Target Compounds**

Final Conc. Units: mg/Kg Wet Weight

| IS Ref | Parameter Name                  | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q  | Rpt? |
|--------|---------------------------------|-------|--------|---------|------------|----------|---------------|------------|----|------|
| 4      | Pentachlorophenol               | 16.41 | -0.01  | 0.00    | 266        | 66036    | 69.21         | 2.31       |    |      |
| 4      | Phenanthrene                    | 16.74 |        | 0.00    | 178        | 573248   | 88.81         | 2.96       |    |      |
| 4      | Anthracene                      | 16.81 | -0.02  | 0.00    | 178        | 529499   | 78.02         | 2.60       |    |      |
| 4      | Carbazole                       | 17.11 |        | 0.00    | 167        | 466022   | 84.12         | 2.80       |    |      |
| 4      | Di-n-butyl Phthalate            | 17.73 |        | 0.00    | 149        | 658214   | 89.07         | 2.97       |    |      |
| 4      | Fluoranthene                    | 18.65 | -0.01  | 0.00    | 202        | 511258   | 87.35         | 2.91       |    |      |
| 5      | Benzidine                       | 18.91 | -0.01  | 0.00    | 184        | 92803    | 46.17         | 1.54       | J  |      |
| 5      | Pyrene                          | 19.01 | -0.01  | 0.00    | 202        | 531997   | 83.26         | 2.78       |    |      |
| 5      | Butyl Benzyl Phthalate          | 20.15 |        | 0.00    | 149        | 288136   | 79.13         | 2.64       |    |      |
| 5      | 3,3'-Dichlorobenzidine          | 21.10 | -0.01  | 0.00    | 252        | 196340   | 78.48         | 2.62       |    |      |
| 5      | Benz(a)anthracene               | 21.10 | -0.01  | 0.00    | 228        | 493598   | 87.74         | 2.92       |    |      |
| 5      | Chrysene                        | 21.18 | -0.01  | 0.00    | 228        | 484888   | 89.02         | 2.97       |    |      |
| 5      | Bis(2-ethylhexyl) Phthalate     | 21.30 |        | 0.00    | 149        | 443290   | 85.55         | 2.85       |    |      |
| 6      | Di-n-octyl Phthalate            | 22.75 | -0.02  | 0.00    | 149        | 786424   | 83.05         | 2.77       |    |      |
| 6      | Benzo(b)fluoranthene            | 23.44 | -0.01  | 0.00    | 252        | 455412   | 88.19         | 2.94       |    |      |
| 6      | Benzo(k)fluoranthene            | 23.51 | -0.02  | 0.00    | 252        | 481148   | 89.79         | 2.99       |    |      |
| 6      | Benzo(a)pyrene                  | 24.17 | -0.02  | 0.00    | 252        | 415013   | 96.77         | 3.23       |    |      |
| 6      | Indeno(1,2,3-cd)pyrene          | 26.75 | -0.03  | 0.00    | 276        | 316559   | 85.23         | 2.84       |    |      |
| 6      | Dibenz(a,h)anthracene           | 26.83 | -0.02  | 0.00    | 278        | 327197   | 82.70         | 2.76       |    |      |
| 6      | Benzo(g,h,i)perylene            | 27.34 | -0.01  | 0.00    | 276        | 323390   | 80.66         | 2.69       |    |      |
|        | Hexachlorocyclohexane           |       |        |         | 0          | 0        |               | 0.67       | UJ | NR   |
|        | 1,2,3-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,2,3,4-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,2,3,5-Tetrachlorobenzene      |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | 1,3,5-Trichlorobenzene          |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | Acrylamide                      |       |        |         | 0          | 0        |               | 50         | U  | NR   |
|        | Diisobutyl Phthalate            |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | OPMO                            |       |        |         | 0          | 0        |               | 2.0        | UJ | NR   |
|        | 1-Methylnaphthalene             |       |        |         | 0          | 0        |               | 0.33       | UJ | NR   |
|        | HPMO                            |       |        |         | 0          | 0        |               | 2.0        | UJ | NR   |
|        | 2,3,7,8-Tetrachlorodibenzo-p-di |       |        |         | 0          | 0        |               | 0.67       | UJ | NR   |

Prep Amount: 30.00 g      Dilution: 1.0  
 Prep Final Vol: 1 mL      Unit Factor: 1  
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:04 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 82853    | 40.00 | ug/ml | -0.01    |
| 21) Naphthalene-d8        | 11.44 | 136  | 328582   | 40.00 | ug/ml | -0.01    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 180044   | 40.00 | ug/ml | -0.01    |
| 58) Phenanthrene-d10      | 16.69 | 188  | 242964   | 40.00 | ug/ml | -0.01    |
| 68) Chrysene-d12          | 21.12 | 240  | 239385   | 40.00 | ug/ml | -0.01    |
| 77) Perylene-d12          | 24.30 | 264  | 200450   | 40.00 | ug/ml | -0.01    |

System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.10    | 112   | 210469   | 95.55    | ug/ml | -0.04  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 63.70% |
| 7) Phenol-d6             | 8.84    | 99    | 343181   | 111.71   | ug/ml | -0.04  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 74.47% |
| 19) Nitrobenzene-d5      | 10.27   | 82    | 228880   | 76.27    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 76.27% |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 455315   | 77.14    | ug/ml | -0.01  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 77.14% |
| 59) 2,4,6-Tribromophenol | 15.59   | 330   | 125893   | 127.84   | ug/ml | -0.01  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 85.23% |
| 71) Terphenyl-d14        | 19.30   | 244   | 317261   | 86.55    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 86.55% |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.11  | 42   | 143290m  | 72.38 | ug/ml |        |
| 3) Pyridine                    | 4.16  | 79   | 253679m  | 90.43 | ug/ml |        |
| 5) Aniline                     | 8.79  | 93   | 237134   | 76.37 | ug/ml | 96     |
| 6) Bis(2-chloroethyl) Ether    | 8.94  | 93   | 189151   | 75.50 | ug/ml | 99     |
| 8) Phenol                      | 8.86  | 94   | 225849   | 71.78 | ug/ml | 98     |
| 9) 2-Chlorophenol              | 8.99  | 128  | 193856   | 71.46 | ug/ml | 93     |
| 10) 1,3-Dichlorobenzene        | 9.23  | 146  | 204276   | 71.00 | ug/ml | 95     |
| 11) 1,4-Dichlorobenzene        | 9.35  | 146  | 209424   | 71.46 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.60  | 146  | 199706   | 71.99 | ug/ml | 98     |
| 13) Benzyl Alcohol             | 9.62  | 108  | 124648   | 74.81 | ug/ml | 100    |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45   | 279100   | 67.15 | ug/ml | 76     |
| 15) 2-Methylphenol             | 9.85  | 107  | 150062   | 73.66 | ug/ml | 94     |
| 16) Hexachloroethane           | 10.15 | 117  | 91420    | 68.57 | ug/ml | 94     |
| 17) N-Nitrosodi-n-propylamine  | 10.08 | 70   | 160975   | 78.94 | ug/ml | 100    |
| 18) 4-Methylphenol             | 10.11 | 107  | 240058   | 77.59 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.30 | 77   | 207201   | 73.40 | ug/ml | 96     |
| 22) Isophorone                 | 10.72 | 82   | 441943   | 74.56 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.83 | 139  | 121531   | 74.41 | ug/ml | 98     |
| 24) 2,4-Dimethylphenol         | 10.97 | 122  | 132358   | 60.61 | ug/ml | 95     |
| 25) Bis(2-chloroethoxy)methane | 11.10 | 93   | 239372   | 71.89 | ug/ml | 98     |

(#) = qualifier out of range (m) = manual integration  
 0610F009.D 0602BNC7.M Fri Jun 11 10:16:48 2010



Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:04 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.25 | 162  | 187067   | 75.50 | ug/ml  | 98     |
| 27) Benzoic Acid               | 11.25 | 122  | 85401    | 45.63 | ug/ml  | 93     |
| 28) 1,2,4-Trichlorobenzene     | 11.35 | 180  | 209692   | 79.72 | ug/ml  | 98     |
| 29) Naphthalene                | 11.47 | 128  | 619857   | 78.63 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.60 | 127  | 282581   | 81.25 | ug/ml  | 97     |
| 31) Hexachlorobutadiene        | 11.70 | 225  | 124316   | 74.50 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.44 | 107  | 202335   | 78.23 | ug/ml# | 67     |
| 33) 2-Methylnaphthalene        | 12.61 | 142  | 413806   | 82.49 | ug/ml  | 100    |
| 35) Hexachlorocyclopentadiene  | 12.87 | 237  | 53121    | 33.51 | ug/ml  | 99     |
| 36) 2,4,6-Trichlorophenol      | 13.10 | 196  | 151050   | 81.32 | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.16 | 196  | 163096   | 78.80 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.40 | 162  | 408248   | 78.40 | ug/ml  | 98     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 132723   | 79.23 | ug/ml  | 81     |
| 41) Acenaphthylene             | 14.06 | 152  | 659485   | 82.21 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.92 | 163  | 519704   | 84.91 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.01 | 165  | 112990   | 81.46 | ug/ml  | 89     |
| 44) Acenaphthene               | 14.35 | 154  | 391348   | 85.48 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.28 | 138  | 116093   | 79.55 | ug/ml  | 97     |
| 46) 2,4-Dinitrophenol          | 14.45 | 184  | 46812    | 58.17 | ug/ml  | 97     |
| 47) Dibenzofuran               | 14.63 | 168  | 543973   | 75.36 | ug/ml  | 98     |
| 48) 4-Nitrophenol              | 14.63 | 109  | 60258    | 76.26 | ug/ml# | 27     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 146174   | 83.15 | ug/ml  | 97     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.85 | 232  | 122873   | 81.42 | ug/ml# | 83     |
| 51) Fluorene                   | 15.19 | 166  | 477154   | 88.21 | ug/ml  | 98     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.21 | 204  | 236519   | 85.41 | ug/ml  | 97     |
| 53) Diethyl Phthalate          | 15.07 | 149  | 517364   | 87.43 | ug/ml  | 98     |
| 54) 4-Nitroaniline             | 15.27 | 138  | 103461   | 81.91 | ug/ml  | 93     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 71472    | 74.76 | ug/ml# | 35     |
| 56) N-Nitrosodiphenylamine     | 15.42 | 169  | 290316   | 80.49 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.46 | 77   | 481810m  | 79.22 | ug/ml  |        |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 127418   | 86.98 | ug/ml  | 93     |
| 61) Hexachlorobenzene          | 16.07 | 284  | 149546   | 88.08 | ug/ml  | 98     |
| 62) Pentachlorophenol          | 16.41 | 266  | 66036    | 69.21 | ug/ml  | 99     |
| 63) Phenanthrene               | 16.74 | 178  | 573248   | 88.81 | ug/ml  | 100    |
| 64) Anthracene                 | 16.81 | 178  | 529499   | 78.02 | ug/ml  | 99     |
| 65) Carbazole                  | 17.11 | 167  | 466022   | 84.12 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.73 | 149  | 658214   | 89.07 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.65 | 202  | 511258   | 87.35 | ug/ml  | 99     |
| 69) Benzidine                  | 18.91 | 184  | 92803    | 46.17 | ug/ml  | 98     |
| 70) Pyrene                     | 19.01 | 202  | 531997   | 83.26 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.15 | 149  | 288136   | 79.13 | ug/ml  | 93     |

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



Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 08:09:04 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.10 | 252  | 196340   | 78.48 | ug/ml | 97     |
| 74) Benz(a)anthracene          | 21.10 | 228  | 493598   | 87.74 | ug/ml | 99     |
| 75) Chrysene                   | 21.18 | 228  | 484888   | 89.02 | ug/ml | 100    |
| 76) Bis(2-ethylhexyl) Phthalat | 21.30 | 149  | 443290   | 85.55 | ug/ml | 98     |
| 78) Di-n-octyl Phthalate       | 22.75 | 149  | 786424   | 83.05 | ug/ml | 99     |
| 79) Benzo(b)fluoranthene       | 23.44 | 252  | 455412   | 88.19 | ug/ml | 97     |
| 80) Benzo(k)fluoranthene       | 23.51 | 252  | 481148   | 89.79 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 415013   | 96.77 | ug/ml | 97     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.75 | 276  | 316559   | 85.23 | ug/ml | 98     |
| 83) Dibenz(a,h)anthracene      | 26.83 | 278  | 327197   | 82.70 | ug/ml | 98     |
| 84) Benzo(g,h,i)perylene       | 27.34 | 276  | 323390   | 80.66 | ug/ml | 94     |





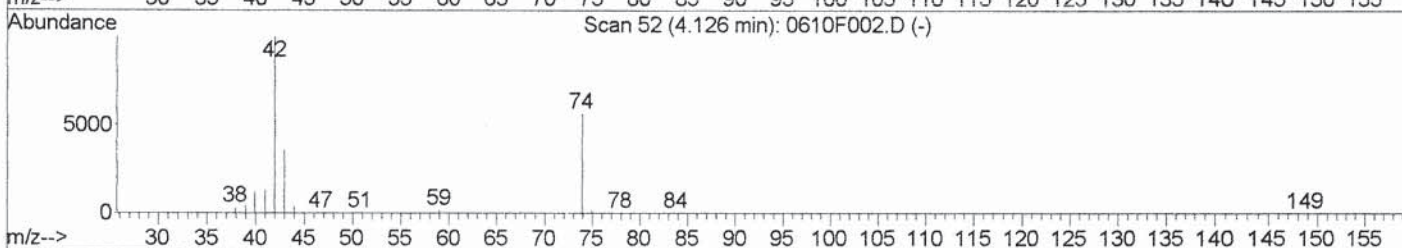
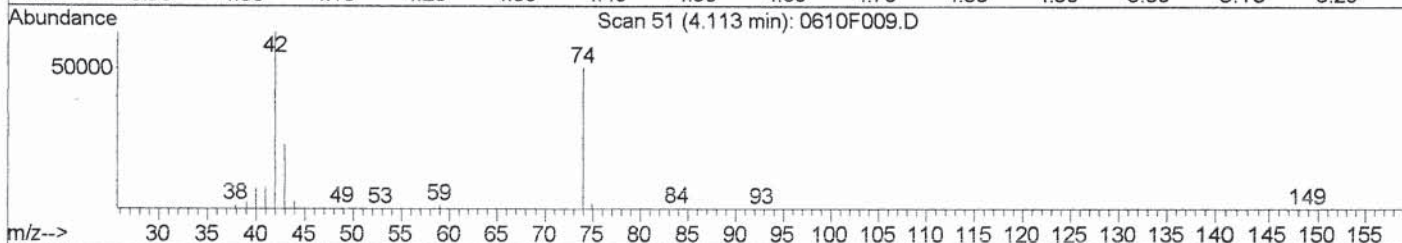
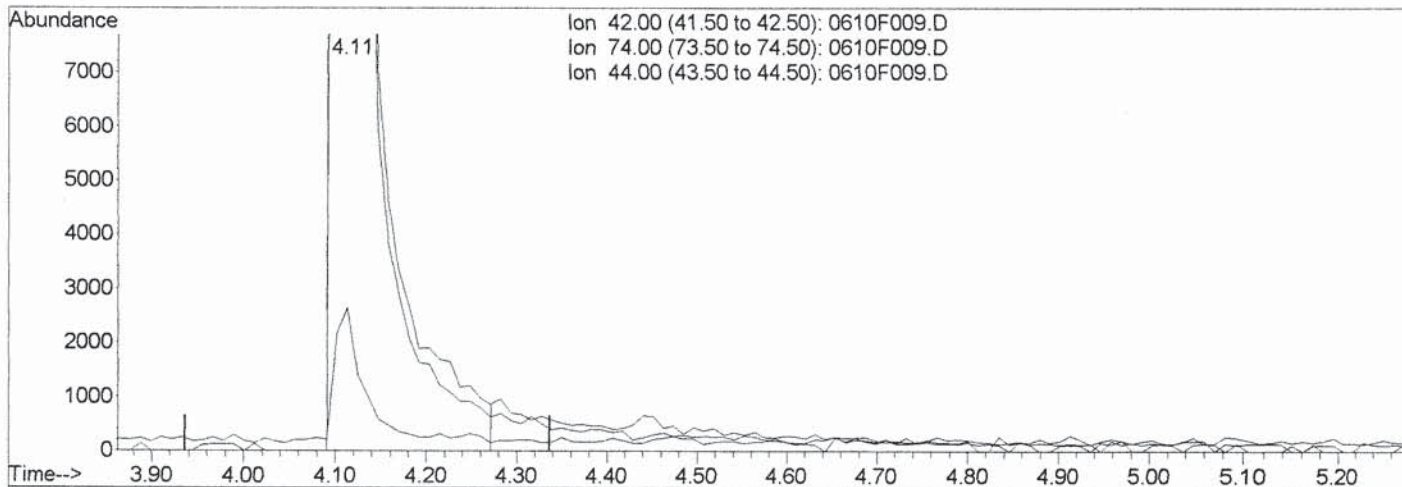
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:09 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F009.D

(2) N-Nitrosodimethylamine (T)

4.11min 67.49ug/ml

response 133601

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 80.07 |
| 44.00 | 4.40  | 3.89  |
| 0.00  | 0.00  | 0.00  |

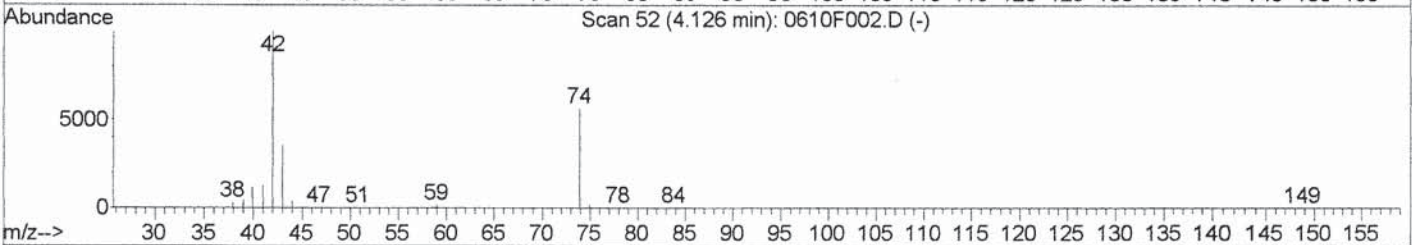
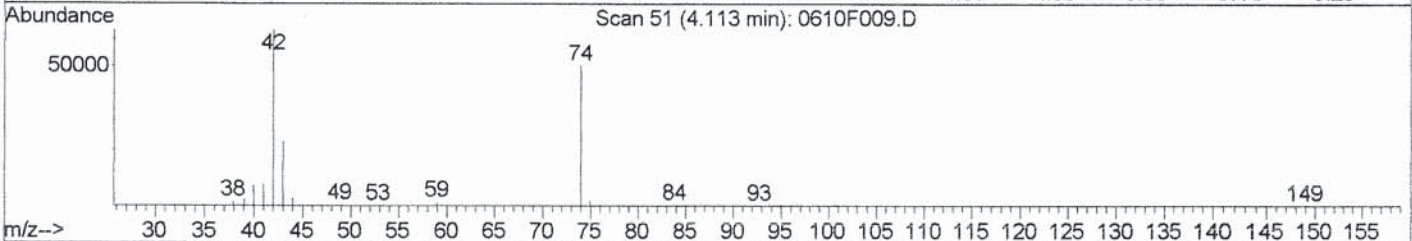
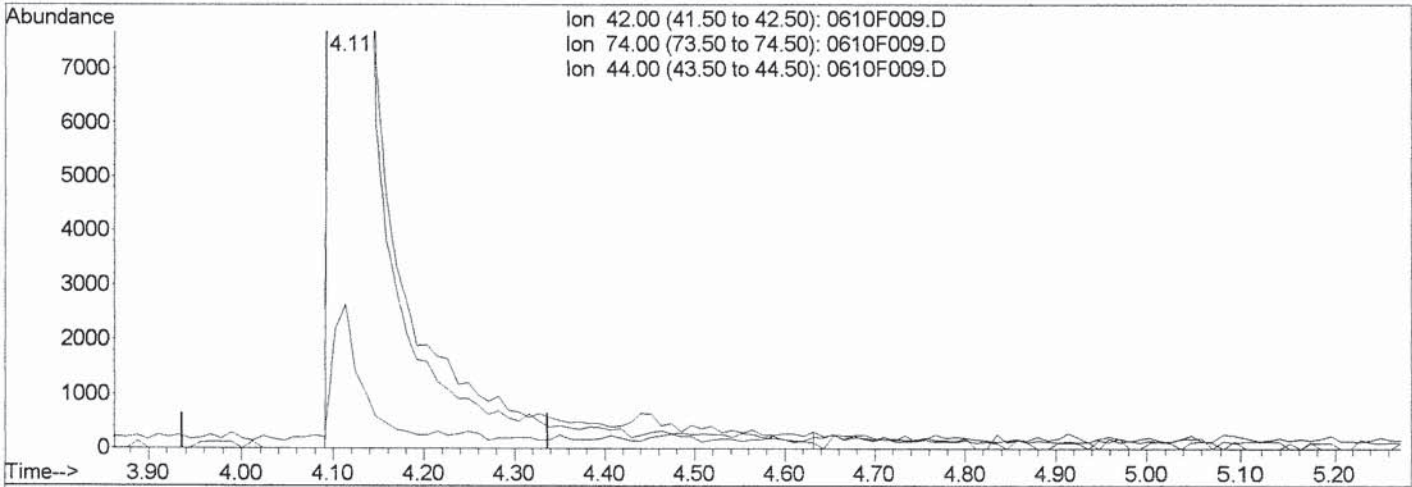
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:24 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F009.D

(2) N-Nitrosodimethylamine (T)

4.11min 72.38ug/ml m

response 143290

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 80.02 |
| 44.00 | 4.40  | 4.17  |
| 0.00  | 0.00  | 0.00  |

*Handwritten:* IC M 6-10-10

*Handwritten:* LB 4/14/10



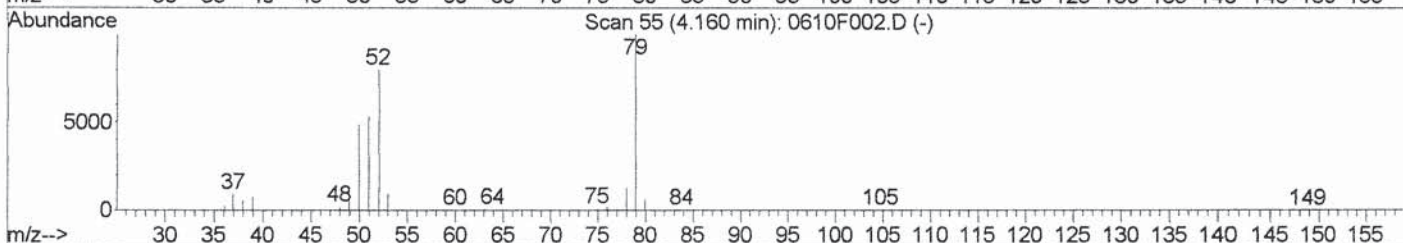
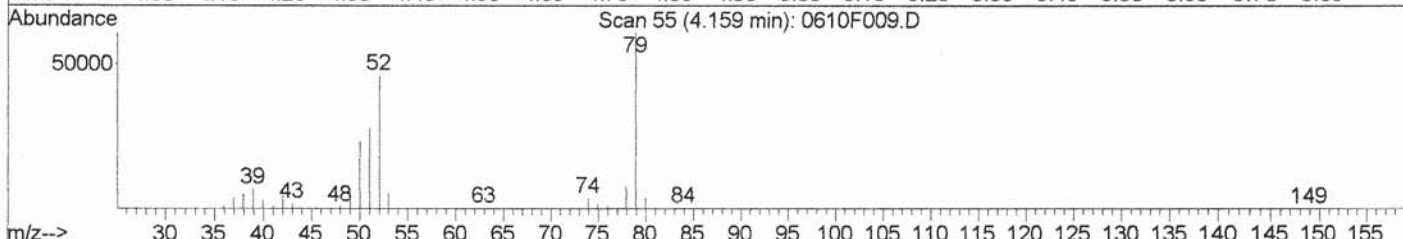
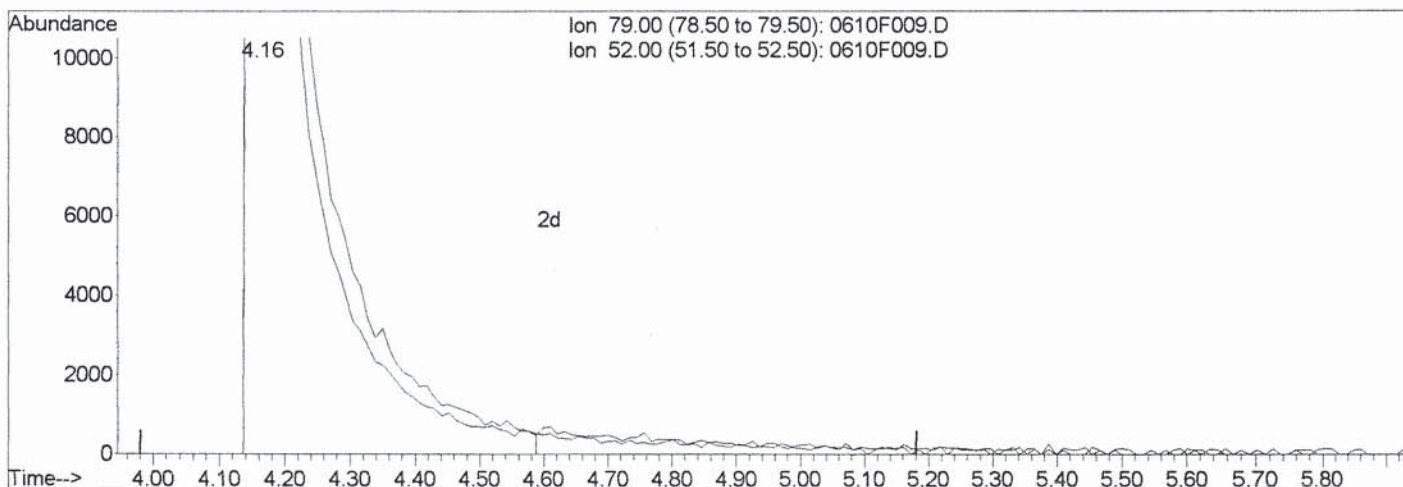
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:24 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F009.D

(3) Pyridine (T)

4.16min 86.88ug/ml

response 243714

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.52 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

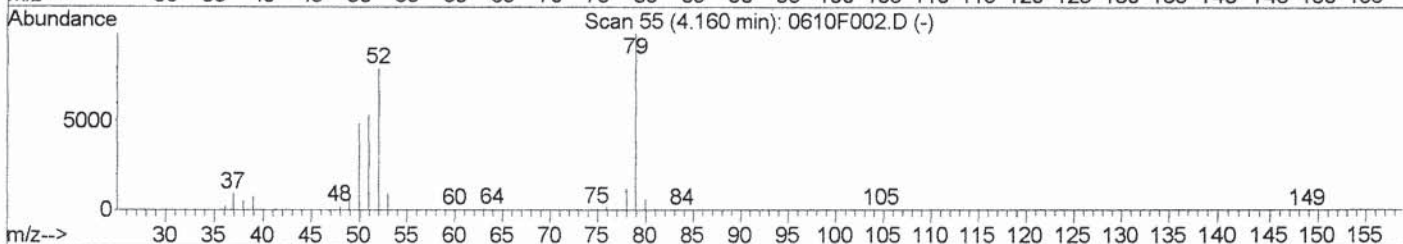
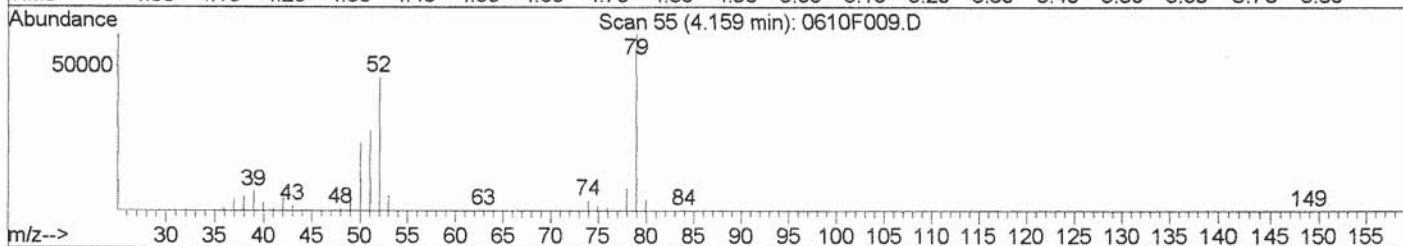
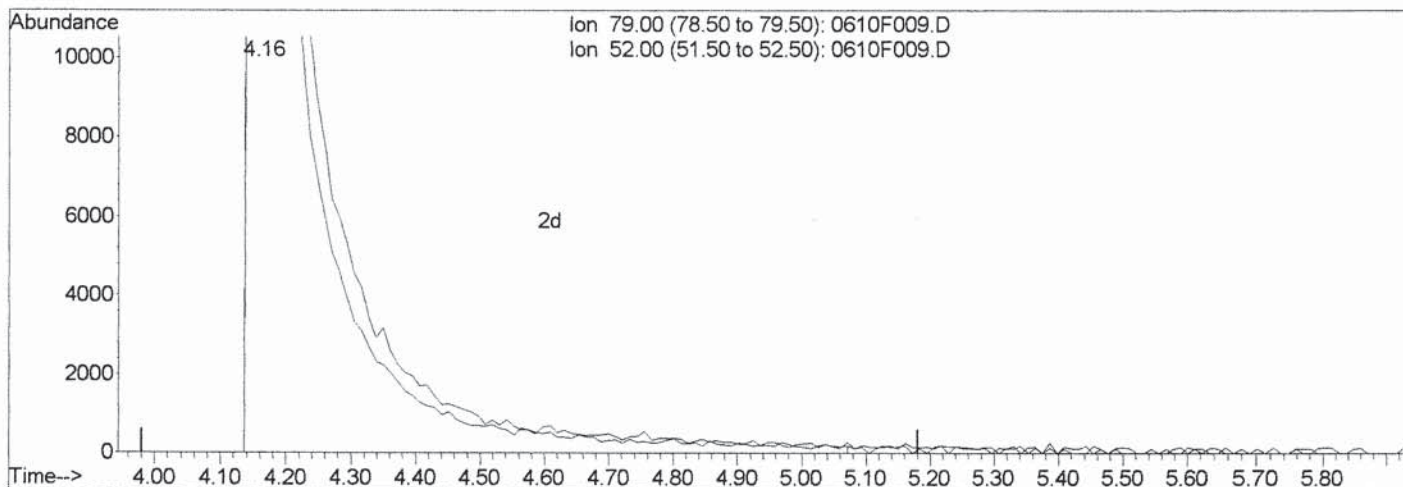
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:24 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F009.D

(3) Pyridine (T)

4.16min 90.43ug/ml m

response 253679

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.65 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*DC M G 11-10*

*LB  
6/11/10*



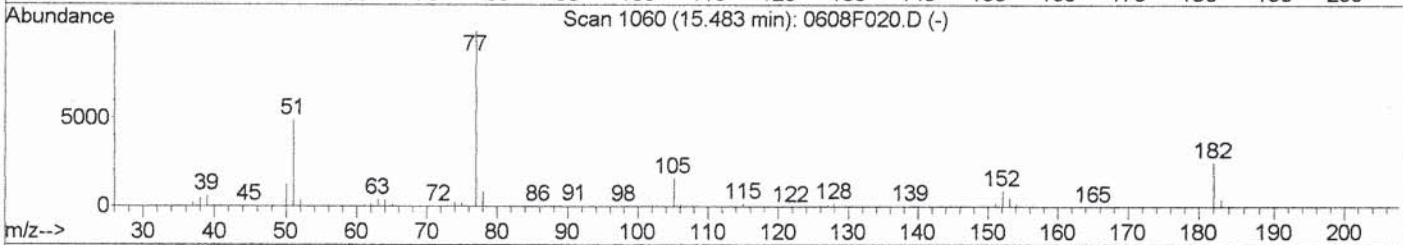
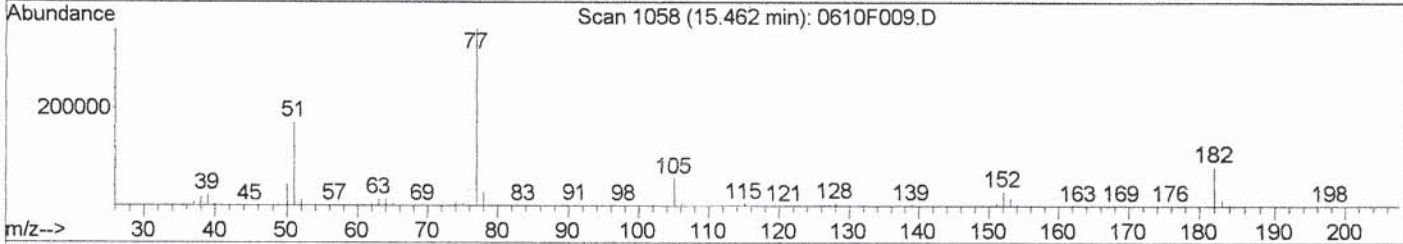
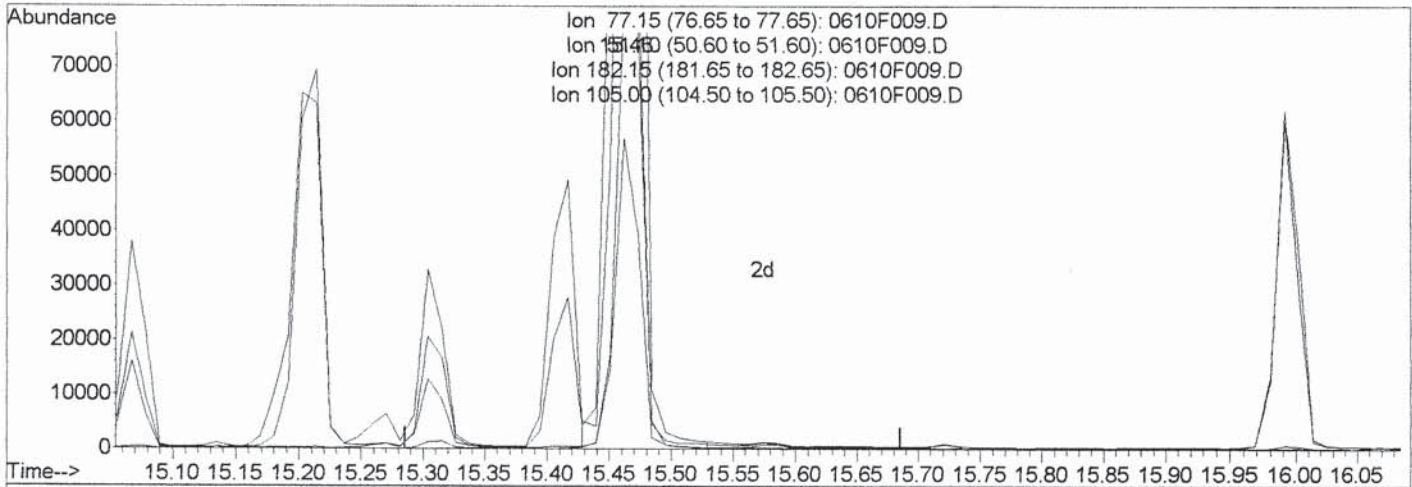
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F009.D  
 Acq On : 10 Jun 2010 8:18 pm  
 Sample : KQ5080-4 DLCS  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:24 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F009.D

| Retention Time (min) | Ion Mass (m/z) | Exp%  | Act%  |
|----------------------|----------------|-------|-------|
| 15.46                | 77.15          | 100   | 100   |
| 15.46                | 51.10          | 43.10 | 46.81 |
| 15.46                | 182.15         | 27.90 | 22.23 |
| 15.46                | 105.00         | 16.60 | 15.49 |

(57) 1,2-Diphenylhydrazine (T)  
 15.46min 79.22ug/ml m  
 response 481810

*OE*  
*46-11-10*

*LB*  
*4/11/10*

Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Validation Package

Standards Data



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 14:51

**Tune Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**File ID:** J:\MS07\DATA\061010\0610F001.D  
**Instrument ID:** MS07  
**Column:**

**Analysis Method:** 8270C  
**Analysis Lot:** KWG1005663

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 50.5                 | 24239         | PASS             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 69          | 198              | 0            | 100          | 59.4                 | 28517         | PASS             |
| 70          | 69               | 0            | 2            | 0.2                  | 47            | PASS             |
| 127         | 198              | 25           | 75           | 51.1                 | 24529         | PASS             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | PASS             |
| 198         | 198              | 100          | 100          | 100.0                | 48018         | PASS             |
| 199         | 198              | 5            | 9            | 6.7                  | 3236          | PASS             |
| 275         | 198              | 10           | 30           | 22.2                 | 10668         | PASS             |
| 365         | 198              | 1            | 100          | 3.0                  | 1439          | PASS             |
| 441         | 443              | 0            | 100          | 78.5                 | 3934          | PASS             |
| 442         | 198              | 40           | 110          | 55.2                 | 26486         | PASS             |
| 443         | 442              | 15           | 24           | 18.9                 | 5012          | PASS             |

| Sample Name                         | Lab Code     | File ID                        | Date Analyzed | Time Analyzed | Q |
|-------------------------------------|--------------|--------------------------------|---------------|---------------|---|
| Continuing Calibration Verification | KWG1005663-2 | J:\MS07\DATA\061010\0610F002.D | 06/10/2010    | 15:32         |   |
| Method Blank                        | KWG1005659-5 | J:\MS07\DATA\061010\0610F007.D | 06/10/2010    | 18:58         |   |
| Lab Control Sample                  | KWG1005659-3 | J:\MS07\DATA\061010\0610F008.D | 06/10/2010    | 19:38         |   |
| Duplicate Lab Control Sample        | KWG1005659-4 | J:\MS07\DATA\061010\0610F009.D | 06/10/2010    | 20:18         |   |
| Batch QCMS                          | KWG1005659-1 | J:\MS07\DATA\061010\0610F010.D | 06/10/2010    | 20:58         |   |
| Batch QCDMS                         | KWG1005659-2 | J:\MS07\DATA\061010\0610F011.D | 06/10/2010    | 21:38         |   |

Results flagged with an asterisk (\*) indicate the analysis performed outside specified tune window

# Exception Report

Data File: J:\MS07\DATA\061010\0610F001.D  
Lab ID: KWG1005663-1  
RunType: TUNE  
Matrix: WATER

Date Acquired: 06/10/2010 14:51  
Date Quantitated:  
Batch ID: KWG1005663  
Analysis Method: 8270C  
MethodJoinID: MJ250

## Sample Exceptions

| Exception Categories | Result | Low Limit | High Limit | Pass | Fail |
|----------------------|--------|-----------|------------|------|------|
| Tune Ion Ratio       | NA     | NA        | NA         | x    |      |

Primary Review: MB 6-11-10

Secondary Review: LB 6-11-10



# Quantitation Report

|   |                         |                            |            |
|---|-------------------------|----------------------------|------------|
| Bottle ID:  | Tier:                   | Matrix:                    | WATER      |
| Prod Code: 8270C                                  | Collect Date:           | Receive Date:              | 06/11/2010 |
| Analysis Lot: KWG1005663                          | Prep Lot:               | Report Group:              |            |
| Analysis Method: DF TPP                           | Prep Method:            |                            |            |
| Prep Ref:   | Prep Date:              |                            |            |
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525 | Report List ID: LJ1747     |            |
| Title:  | Report List ID: LJ1747  | Method ID: MJ190           |            |
| Tune Ref:   | Method ID: MJ190        | Quant based on Report List |            |
| MB Ref:   |                         |                            |            |
| Data File: J:\MS07\DATA\061010\0610F001.D         | Instrument: MS07        | Vial: 1                    |            |
| Acqu Date: 06/10/2010 14:51                       | Quant Date:             | Dilution: 1.0              |            |
| Run Type: TUNE                                    |                         | Soln Conc. Units:          |            |
| Lab ID: KWG1005663-1                              |                         |                            |            |

## Tune Results

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 50.5                 | 24239         | Pass             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | Pass             |
| 69          | 198              | 0            | 100          | 59.4                 | 28517         | Pass             |
| 70          | 69               | 0            | 2            | 0.2                  | 47            | Pass             |
| 127         | 198              | 25           | 75           | 51.1                 | 24529         | Pass             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | Pass             |
| 198         | 198              | 100          | 100          | 100.0                | 48018         | Pass             |
| 199         | 198              | 5            | 9            | 6.7                  | 3236          | Pass             |
| 275         | 198              | 10           | 30           | 22.2                 | 10668         | Pass             |
| 365         | 198              | 0.75         | 100          | 3.0                  | 1439          | Pass             |
| 441         | 443              | 0.01         | 100          | 78.5                 | 3934          | Pass             |
| 442         | 198              | 40           | 110          | 55.2                 | 26486         | Pass             |
| 443         | 442              | 15           | 24           | 18.9                 | 5012          | Pass             |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

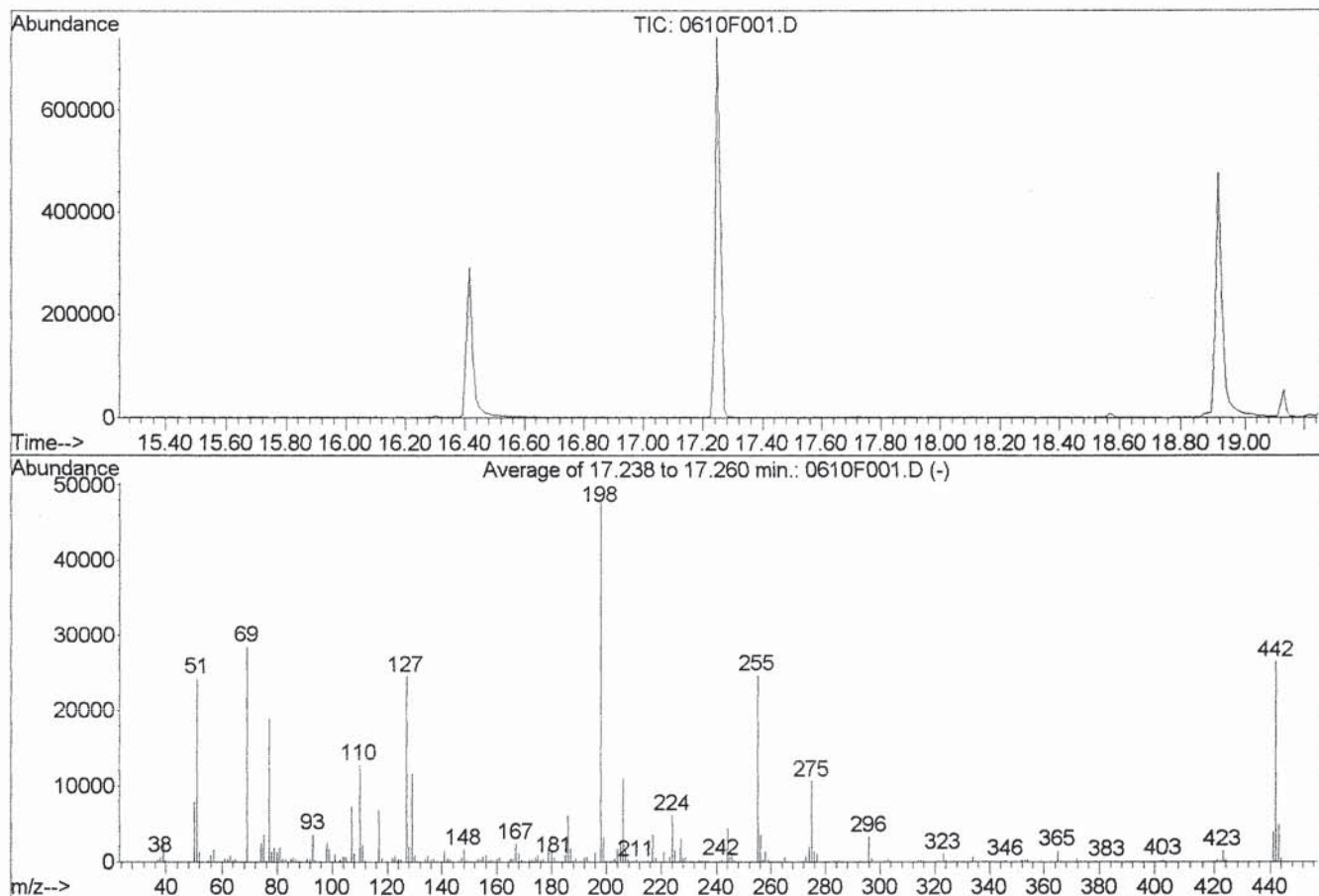
D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

DFTPP

Data File : J:\MS07\DATA\061010\0610F001.D  
 Acq On : 10 Jun 2010 2:51 pm  
 Sample : 50PPM DFTPP SVM32-14A  
 Misc :  
 MS Integration Params: RTEINT.P  
 Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07

Vial: 1  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00



Spectrum Information: Average of 17.238 to 17.260 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 30           | 80           | 50.5      | 24239   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 69          | 198          | 0.00         | 100          | 59.4      | 28517   | PASS             |
| 70          | 69           | 0.00         | 2            | 0.2       | 47      | PASS             |
| 127         | 198          | 25           | 75           | 51.1      | 24529   | PASS             |
| 197         | 198          | 0.00         | 1            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 48018   | PASS             |
| 199         | 198          | 5            | 9            | 6.7       | 3236    | PASS             |
| 275         | 198          | 10           | 30           | 22.2      | 10668   | PASS             |
| 365         | 198          | 0.75         | 100          | 3.0       | 1439    | PASS             |
| 441         | 443          | 0.01         | 100          | 78.5      | 3934    | PASS             |
| 442         | 198          | 40           | 110          | 55.2      | 26486   | PASS             |
| 443         | 442          | 15           | 24           | 18.9      | 5012    | PASS             |



Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.95 | 269    | 51.00 | 24239  | 63.95 | 150    | 76.05 | 200    |
| 37.95 | 596    | 52.00 | 1284   | 64.90 | 388    | 77.05 | 18950  |
| 38.95 | 2636   | 52.90 | 48     | 65.85 | 34     | 77.95 | 1367   |
| 39.80 | 178    | 54.50 | 44     | 66.05 | 68     | 78.95 | 1900   |
| 41.05 | 109    | 54.90 | 217    | 67.05 | 67     | 79.95 | 1374   |
| 41.80 | 33     | 55.90 | 862    | 68.95 | 28517  | 80.95 | 1837   |
| 43.00 | 41     | 56.90 | 1594   | 69.95 | 47     | 81.95 | 466    |
| 44.90 | 53     | 60.90 | 403    | 72.85 | 50     | 82.95 | 328    |
| 47.00 | 37     | 61.85 | 56     | 73.15 | 76     | 85.00 | 414    |
| 48.00 | 68     | 62.05 | 365    | 73.95 | 2451   | 85.95 | 610    |
| 50.00 | 7890   | 62.95 | 858    | 74.95 | 3523   | 87.00 | 313    |

Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z   | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 87.95 | 111    | 100.00 | 96     | 113.05 | 76     | 124.95 | 385    |
| 88.85 | 75     | 100.90 | 1028   | 113.85 | 33     | 127.00 | 24529  |
| 89.90 | 35     | 102.00 | 39     | 114.65 | 34     | 128.00 | 2025   |
| 90.95 | 467    | 102.90 | 380    | 116.95 | 6900   | 129.00 | 11720  |
| 92.00 | 313    | 103.90 | 684    | 117.95 | 515    | 129.90 | 992    |
| 93.00 | 3621   | 104.95 | 668    | 119.25 | 49     | 130.85 | 185    |
| 93.95 | 255    | 106.95 | 7334   | 120.05 | 71     | 132.00 | 77     |
| 95.90 | 66     | 107.95 | 1147   | 121.95 | 608    | 132.20 | 40     |
| 98.00 | 2519   | 109.95 | 12775  | 122.95 | 873    | 133.95 | 327    |
| 99.00 | 1841   | 110.95 | 2196   | 123.75 | 63     | 134.90 | 840    |
| 99.80 | 46     | 111.95 | 282    | 123.95 | 388    | 135.90 | 288    |

Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 136.95 | 435    | 146.00 | 62     | 155.95 | 940    | 167.95 | 1127   |
| 138.00 | 74     | 146.80 | 67     | 157.00 | 190    | 168.85 | 245    |
| 138.70 | 45     | 147.00 | 552    | 157.85 | 268    | 169.80 | 97     |
| 139.80 | 92     | 147.95 | 1615   | 158.90 | 158    | 170.90 | 68     |
| 140.10 | 35     | 149.00 | 268    | 159.95 | 400    | 171.90 | 286    |
| 140.90 | 1484   | 149.95 | 61     | 160.95 | 584    | 172.95 | 258    |
| 141.90 | 425    | 151.00 | 138    | 161.90 | 159    | 173.90 | 523    |
| 142.90 | 301    | 152.15 | 35     | 163.85 | 56     | 175.00 | 923    |
| 143.90 | 61     | 152.95 | 431    | 164.95 | 567    | 176.05 | 299    |
| 144.80 | 42     | 154.00 | 300    | 165.95 | 331    | 176.90 | 487    |
| 145.80 | 186    | 154.95 | 693    | 166.95 | 2357   | 178.90 | 1935   |

Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 179.95 | 1307   | 189.90 | 50     | 201.40 | 163    | 211.65 | 73     |
| 180.95 | 592    | 190.90 | 94     | 202.95 | 424    | 214.95 | 150    |
| 181.70 | 36     | 191.15 | 131    | 203.95 | 1707   | 216.90 | 3554   |
| 182.00 | 60     | 191.90 | 547    | 205.00 | 2894   | 218.00 | 494    |
| 182.70 | 36     | 192.95 | 665    | 205.95 | 11013  | 221.00 | 1391   |
| 183.95 | 141    | 194.00 | 93     | 206.95 | 1462   | 221.90 | 58     |
| 185.00 | 1050   | 195.95 | 1173   | 207.95 | 395    | 222.80 | 53     |
| 185.95 | 6151   | 197.95 | 48018  | 208.90 | 129    | 223.00 | 728    |
| 186.90 | 1733   | 198.85 | 3236   | 209.90 | 208    | 224.00 | 6139   |
| 187.95 | 193    | 199.75 | 54     | 210.85 | 315    | 224.95 | 1612   |
| 188.85 | 450    | 199.90 | 194    | 211.05 | 168    | 226.90 | 3078   |

Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 227.90 | 475    | 238.90 | 116    | 252.95 | 168    | 270.90 | 35     |
| 228.90 | 599    | 239.95 | 67     | 255.00 | 24692  | 272.90 | 781    |
| 229.90 | 52     | 241.00 | 168    | 256.00 | 3630   | 273.95 | 2001   |
| 230.90 | 209    | 241.90 | 301    | 256.95 | 294    | 274.90 | 10668  |
| 231.60 | 35     | 243.95 | 4419   | 257.80 | 131    | 275.90 | 1386   |
| 231.90 | 34     | 244.95 | 655    | 257.95 | 1469   | 276.95 | 1041   |
| 232.80 | 40     | 245.85 | 1142   | 258.90 | 266    | 277.95 | 102    |
| 233.95 | 190    | 246.90 | 253    | 260.90 | 34     | 282.95 | 102    |
| 234.95 | 192    | 248.95 | 164    | 264.00 | 53     | 283.70 | 77     |
| 235.90 | 201    | 250.85 | 35     | 264.90 | 649    | 284.05 | 47     |
| 236.90 | 200    | 252.05 | 39     | 265.90 | 69     | 284.95 | 174    |

Average of 17.238 to 17.260 min.: 0610F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 292.95 | 214    | 323.95 | 173    | 364.95 | 1439   | 420.95 | 238    |
| 293.85 | 39     | 326.90 | 158    | 365.85 | 196    | 422.00 | 197    |
| 295.90 | 3336   | 328.05 | 102    | 370.95 | 37     | 422.95 | 1499   |
| 296.90 | 452    | 332.95 | 69     | 371.95 | 478    | 423.95 | 371    |
| 302.95 | 349    | 333.95 | 675    | 372.95 | 118    | 441.00 | 3934   |
| 303.90 | 123    | 334.90 | 143    | 382.90 | 143    | 442.00 | 26486  |
| 313.90 | 175    | 340.85 | 112    | 389.80 | 34     | 443.00 | 5012   |
| 314.85 | 330    | 345.90 | 215    | 390.90 | 36     | 444.00 | 513    |
| 315.90 | 183    | 351.90 | 292    | 401.95 | 171    |        |        |
| 320.95 | 105    | 352.95 | 192    | 402.90 | 276    |        |        |
| 323.00 | 1071   | 353.90 | 285    | 403.85 | 112    |        |        |



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Results

**Client:** Exponent  
**Project:** Heglar - Kronquist/0907194.000.0601

**Service Request:** K1005244  
**Date Analyzed:** 06/10/2010  
**Time Analyzed:** 22:19

**Tune Summary**  
**Semi-Volatile Organic Compounds by GC/MS**

**File ID:** J:\MS07\DATA\061010\0610F012.D  
**Instrument ID:** MS07  
**Column:**

**Analysis Method:** 8270C  
**Analysis Lot:** KWG1005687

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 48.7                 | 28256         | PASS             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 69          | 198              | 0            | 100          | 58.7                 | 34033         | PASS             |
| 70          | 69               | 0            | 2            | 0.0                  | 0             | PASS             |
| 127         | 198              | 25           | 75           | 49.0                 | 28411         | PASS             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | PASS             |
| 198         | 198              | 100          | 100          | 100.0                | 58006         | PASS             |
| 199         | 198              | 5            | 9            | 6.7                  | 3890          | PASS             |
| 275         | 198              | 10           | 30           | 20.5                 | 11918         | PASS             |
| 365         | 198              | 1            | 100          | 2.7                  | 1563          | PASS             |
| 441         | 443              | 0            | 100          | 75.9                 | 4319          | PASS             |
| 442         | 198              | 40           | 110          | 49.9                 | 28935         | PASS             |
| 443         | 442              | 15           | 24           | 19.7                 | 5688          | PASS             |

| Sample Name                         | Lab Code     | File ID                        | Date Analyzed | Time Analyzed | Q |
|-------------------------------------|--------------|--------------------------------|---------------|---------------|---|
| Continuing Calibration Verification | KWG1005687-2 | J:\MS07\DATA\061010\0610F013.D | 06/10/2010    | 22:59         |   |
| Batch QC                            | K1005175-012 | J:\MS07\DATA\061010\0610F015.D | 06/11/2010    | 00:19         |   |
| D-4-16                              | K1005244-003 | J:\MS07\DATA\061010\0610F016.D | 06/11/2010    | 01:00         |   |

Results flagged with an asterisk (\*) indicate the analysis performed outside specified tune window

# Exception Report

Data File: J:\MS07\DATA\061010\0610F012.D  
Lab ID: KWG1005687-1  
RunType: TUNE  
Matrix: WATER

Date Acquired: 06/10/2010 22:19  
Date Quantitated:  
Batch ID: KWG1005687  
Analysis Method: 8270C  
ListJoinID: LJ11612

## Sample Exceptions

| Exception Categories | Result | Low Limit | High Limit | Pass | Fail |
|----------------------|--------|-----------|------------|------|------|
| Tune Ion Ratio       | NA     | NA        | NA         | x    |      |

Primary Review: MB-11-10  
Secondary Review: LB 4/14/10



# Quantitation Report

|                  |               |               |            |
|------------------|---------------|---------------|------------|
| Bottle ID:       | Tier:         | Matrix:       | WATER      |
| Prod Code: 8270C | Collect Date: | Receive Date: | 06/11/2010 |

|                          |              |               |
|--------------------------|--------------|---------------|
| Analysis Lot: KWG1005687 | Prep Lot:    | Report Group: |
| Analysis Method: DFTPP   | Prep Method: |               |
| Prep Ref:                | Prep Date:   |               |

|   |                            |
|---|----------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525    |
| Title:  | Report List ID: LJ1747     |
| Tune Ref:   | Method ID: MJ190           |
| MB Ref:   | Quant based on Report List |

|   |                   |
|---|-------------------|
| Data File: J:\MS07\DATA\061010\0610F012.D | Instrument: MS07  |
| Acqu Date: 06/10/2010 22:19               | Quant Date:       |
| Run Type: TUNE                            | Vial: 10          |
| Lab ID: KWG1005687-1                      | Dilution: 1.0     |
|   | Soln Conc. Units: |

## Tune Results

| Target Mass | Relative to Mass | Lower Limit% | Upper Limit% | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|--------------|--------------|----------------------|---------------|------------------|
| 51          | 198              | 30           | 80           | 48.7                 | 28256         | Pass             |
| 68          | 69               | 0            | 2            | 0.0                  | 0             | Pass             |
| 69          | 198              | 0            | 100          | 58.7                 | 34033         | Pass             |
| 70          | 69               | 0            | 2            | 0.0                  | 0             | Pass             |
| 127         | 198              | 25           | 75           | 49.0                 | 28411         | Pass             |
| 197         | 198              | 0            | 1            | 0.0                  | 0             | Pass             |
| 198         | 198              | 100          | 100          | 100.0                | 58006         | Pass             |
| 199         | 198              | 5            | 9            | 6.7                  | 3890          | Pass             |
| 275         | 198              | 10           | 30           | 20.5                 | 11918         | Pass             |
| 365         | 198              | 0.75         | 100          | 2.7                  | 1563          | Pass             |
| 441         | 443              | 0.01         | 100          | 75.9                 | 4319          | Pass             |
| 442         | 198              | 40           | 110          | 49.9                 | 28935         | Pass             |
| 443         | 442              | 15           | 24           | 19.7                 | 5688          | Pass             |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

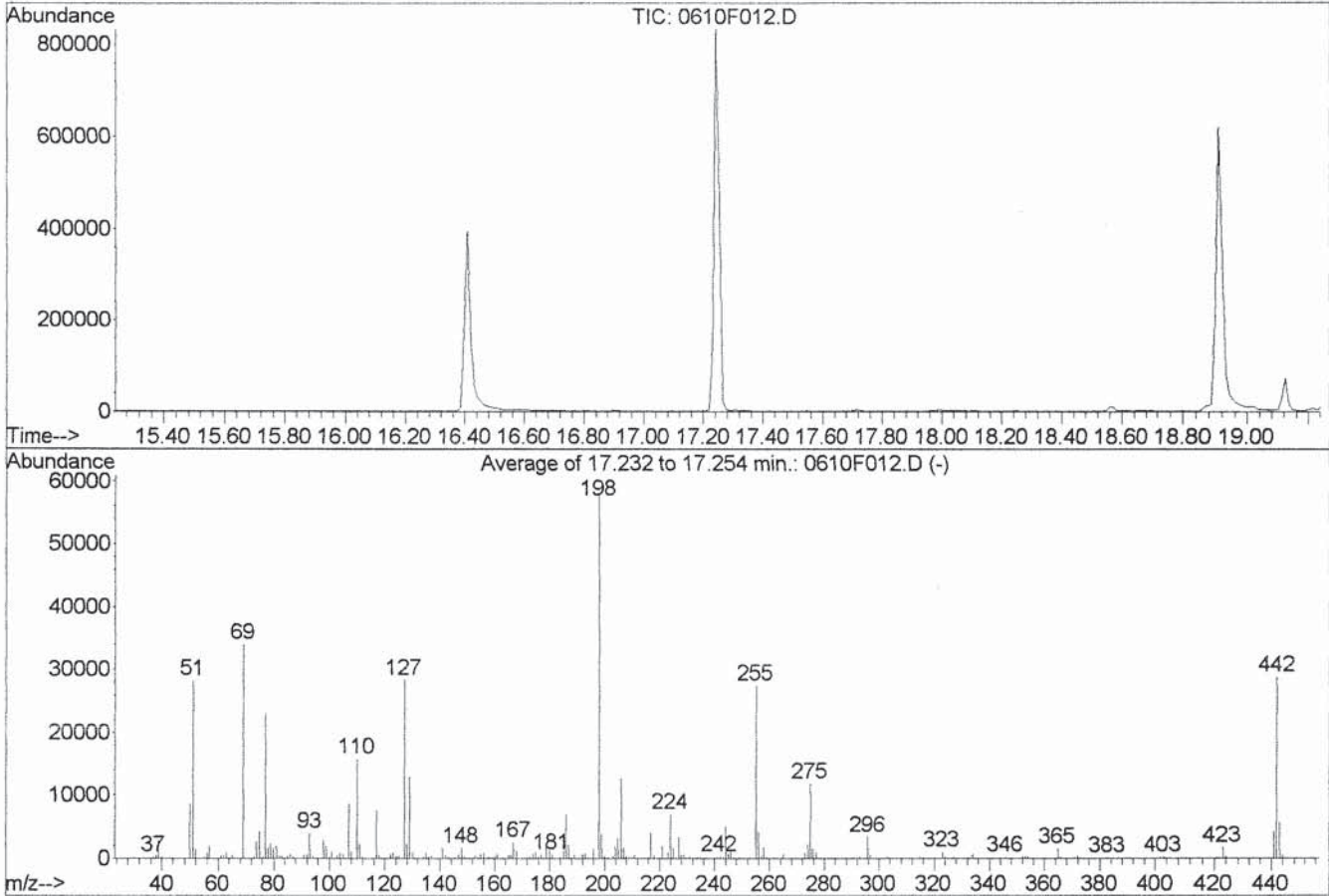
D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

DFTPP

Data File : J:\MS07\DATA\061010\0610F012.D  
 Acq On : 10 Jun 2010 10:19 pm  
 Sample : 50PPM DFTPP SVM32-14A  
 Misc :  
 MS Integration Params: RTEINT.P  
 Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00



Spectrum Information: Average of 17.232 to 17.254 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 30           | 80           | 48.7      | 28256   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 69          | 198          | 0.00         | 100          | 58.7      | 34033   | PASS             |
| 70          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 127         | 198          | 25           | 75           | 49.0      | 28411   | PASS             |
| 197         | 198          | 0.00         | 1            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 58006   | PASS             |
| 199         | 198          | 5            | 9            | 6.7       | 3890    | PASS             |
| 275         | 198          | 10           | 30           | 20.5      | 11918   | PASS             |
| 365         | 198          | 0.75         | 100          | 2.7       | 1563    | PASS             |
| 441         | 443          | 0.01         | 100          | 75.9      | 4319    | PASS             |
| 442         | 198          | 40           | 110          | 49.9      | 28935   | PASS             |
| 443         | 442          | 15           | 24           | 19.7      | 5688    | PASS             |



Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 37.00 | 246    | 55.00 | 265    | 65.95 | 115    | 79.95 | 1635   |
| 37.95 | 521    | 56.00 | 983    | 67.05 | 49     | 80.95 | 2065   |
| 38.95 | 2797   | 56.90 | 1973   | 68.95 | 34033  | 81.75 | 81     |
| 39.95 | 306    | 58.00 | 53     | 72.85 | 63     | 81.95 | 392    |
| 43.85 | 55     | 59.90 | 46     | 73.00 | 234    | 82.90 | 464    |
| 44.90 | 63     | 60.90 | 383    | 73.95 | 2657   | 83.80 | 41     |
| 46.10 | 43     | 62.05 | 444    | 74.95 | 4250   | 84.90 | 411    |
| 48.00 | 45     | 62.95 | 1013   | 76.05 | 259    | 86.00 | 746    |
| 50.00 | 8697   | 63.85 | 163    | 77.05 | 23098  | 86.95 | 316    |
| 51.00 | 28256  | 64.05 | 40     | 77.95 | 1652   | 88.00 | 75     |
| 52.00 | 1438   | 65.05 | 511    | 78.95 | 2317   | 88.90 | 76     |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 91.00  | 513    | 101.80 | 55     | 112.95 | 92     | 128.00 | 2257   |
| 92.00  | 669    | 102.10 | 45     | 114.65 | 40     | 129.00 | 13069  |
| 93.00  | 4018   | 102.95 | 427    | 116.95 | 7643   | 129.95 | 1083   |
| 94.00  | 322    | 103.90 | 838    | 117.95 | 581    | 130.90 | 174    |
| 94.90  | 58     | 104.95 | 729    | 118.95 | 86     | 131.70 | 35     |
| 95.90  | 153    | 106.95 | 8609   | 119.95 | 109    | 132.00 | 89     |
| 96.10  | 54     | 107.85 | 190    | 121.95 | 670    | 132.90 | 37     |
| 98.00  | 2847   | 108.00 | 1100   | 122.95 | 944    | 133.70 | 54     |
| 99.00  | 1970   | 109.95 | 15892  | 123.95 | 421    | 133.95 | 333    |
| 100.00 | 255    | 110.95 | 2396   | 124.95 | 430    | 134.90 | 940    |
| 100.90 | 1054   | 111.95 | 327    | 127.00 | 28411  | 135.80 | 51     |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 136.00 | 358    | 146.95 | 684    | 154.95 | 750    | 162.85 | 40     |
| 136.90 | 459    | 147.95 | 1673   | 155.85 | 120    | 163.75 | 47     |
| 137.80 | 55     | 148.95 | 295    | 156.00 | 941    | 164.05 | 35     |
| 138.95 | 87     | 149.95 | 67     | 156.95 | 36     | 164.95 | 559    |
| 140.00 | 120    | 150.20 | 74     | 157.15 | 170    | 166.00 | 510    |
| 140.90 | 1624   | 150.95 | 155    | 157.95 | 314    | 166.95 | 2582   |
| 141.95 | 495    | 151.15 | 60     | 158.75 | 91     | 167.95 | 1295   |
| 142.90 | 324    | 151.95 | 66     | 159.05 | 103    | 168.90 | 175    |
| 143.75 | 79     | 152.85 | 444    | 159.95 | 455    | 169.95 | 110    |
| 145.00 | 71     | 153.85 | 260    | 160.95 | 710    | 170.95 | 126    |
| 146.00 | 271    | 154.05 | 94     | 162.00 | 138    | 172.00 | 260    |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 172.95 | 355    | 183.95 | 194    | 195.95 | 1521   | 207.95 | 458    |
| 173.95 | 625    | 185.00 | 1125   | 197.95 | 58006  | 208.85 | 79     |
| 175.00 | 1011   | 186.00 | 6996   | 198.95 | 3890   | 209.05 | 67     |
| 175.90 | 333    | 186.90 | 2159   | 199.90 | 299    | 210.05 | 244    |
| 176.95 | 535    | 188.00 | 256    | 201.45 | 218    | 210.85 | 568    |
| 177.90 | 121    | 188.90 | 528    | 202.95 | 488    | 211.95 | 124    |
| 178.90 | 2162   | 189.90 | 47     | 203.95 | 1952   | 214.95 | 141    |
| 179.95 | 1326   | 190.95 | 197    | 204.95 | 3285   | 216.00 | 221    |
| 181.00 | 646    | 191.95 | 715    | 205.95 | 12785  | 216.90 | 4045   |
| 181.90 | 124    | 192.95 | 726    | 206.95 | 1743   | 217.95 | 507    |
| 182.80 | 39     | 193.90 | 198    | 207.75 | 37     | 218.90 | 36     |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 221.00 | 2034   | 231.90 | 43     | 243.95 | 5096   | 257.00 | 397    |
| 223.00 | 938    | 232.90 | 78     | 244.95 | 742    | 257.95 | 1727   |
| 224.00 | 7020   | 233.90 | 167    | 245.90 | 1165   | 258.90 | 270    |
| 224.80 | 156    | 234.90 | 227    | 246.85 | 216    | 263.90 | 45     |
| 225.00 | 1662   | 235.90 | 151    | 248.85 | 200    | 264.90 | 713    |
| 225.90 | 101    | 236.90 | 212    | 250.05 | 42     | 265.75 | 138    |
| 226.90 | 3433   | 239.00 | 128    | 251.80 | 78     | 269.70 | 39     |
| 227.90 | 514    | 239.90 | 123    | 252.75 | 75     | 271.90 | 105    |
| 228.90 | 591    | 240.85 | 184    | 253.05 | 76     | 272.90 | 860    |
| 229.90 | 109    | 241.95 | 369    | 255.00 | 27530  | 273.95 | 2228   |
| 230.90 | 278    | 243.05 | 245    | 256.00 | 4202   | 274.90 | 11918  |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 275.90 | 1607   | 302.95 | 373    | 331.95 | 96     | 365.90 | 241    |
| 276.95 | 1051   | 303.95 | 136    | 332.90 | 127    | 370.90 | 92     |
| 277.95 | 172    | 307.90 | 40     | 333.95 | 669    | 371.95 | 503    |
| 282.80 | 119    | 313.90 | 83     | 334.90 | 158    | 372.95 | 121    |
| 283.95 | 88     | 314.85 | 398    | 341.00 | 122    | 382.80 | 147    |
| 284.95 | 177    | 315.85 | 187    | 345.85 | 227    | 389.90 | 61     |
| 292.95 | 249    | 320.95 | 142    | 352.00 | 349    | 401.90 | 221    |
| 293.75 | 35     | 322.95 | 1057   | 352.95 | 209    | 402.90 | 276    |
| 294.05 | 41     | 323.90 | 211    | 353.95 | 334    | 403.85 | 108    |
| 295.90 | 3429   | 326.90 | 223    | 364.75 | 40     | 420.95 | 225    |
| 296.85 | 495    | 327.90 | 97     | 364.95 | 1563   | 421.95 | 195    |

Average of 17.232 to 17.254 min.: 0610F012.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|--------|--------|-----|--------|-----|--------|-----|--------|
| 422.95 | 1751   |     |        |     |        |     |        |
| 423.95 | 373    |     |        |     |        |     |        |
| 441.00 | 4319   |     |        |     |        |     |        |
| 442.00 | 28935  |     |        |     |        |     |        |
| 443.00 | 5688   |     |        |     |        |     |        |
| 444.00 | 518    |     |        |     |        |     |        |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010

Initial Calibration Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
Instrument ID: MS07

Column: MS

| Level ID | File ID                        | Level ID | File ID                        |
|----------|--------------------------------|----------|--------------------------------|
| A        | J:\MS07\DATA\060210\0602F004.D | F        | J:\MS07\DATA\060210\0602F009.D |
| B        | J:\MS07\DATA\060210\0602F005.D | G        | J:\MS07\DATA\060210\0602F010.D |
| C        | J:\MS07\DATA\060210\0602F006.D | H        | J:\MS07\DATA\060210\0602F011.D |
| D        | J:\MS07\DATA\060210\0602F007.D | I        | J:\MS07\DATA\060210\0602F012.D |
| E        | J:\MS07\DATA\060210\0602F008.D |          |                                |

| Analyte Name                 | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   | Level ID | Amt | RRF   |
|------------------------------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|
| N-Nitrosodimethylamine       | A        | 5.0 | 0.876 | B        | 10  | 0.953 | C        | 20  | 0.933 | D        | 50  | 0.861 | E        | 80  | 0.952 |
|                              | F        | 100 | 1.02  | G        | 120 | 0.995 | H        | 160 | 1.02  | I        | 200 | 0.996 |          |     |       |
| Aniline                      | A        | 5.0 | 1.51  | B        | 10  | 1.55  | C        | 20  | 1.58  | D        | 50  | 1.23  | E        | 80  | 1.50  |
|                              | F        | 100 | 1.55  | G        | 120 | 1.50  | H        | 160 | 1.56  | I        | 200 | 1.51  |          |     |       |
| Bis(2-chloroethyl) Ether     | A        | 5.0 | 1.03  | B        | 10  | 1.14  | C        | 20  | 1.20  | D        | 50  | 1.05  | E        | 80  | 1.24  |
|                              | F        | 100 | 1.29  | G        | 120 | 1.32  | H        | 160 | 1.33  | I        | 200 | 1.29  |          |     |       |
| † Phenol                     |          |     |       | B        | 10  | 1.36  | C        | 20  | 1.44  | D        | 50  | 1.31  | E        | 80  | 1.54  |
|                              | F        | 100 | 1.63  | G        | 120 | 1.63  | H        | 160 | 1.62  | I        | 200 | 1.62  |          |     |       |
| 2-Chlorophenol               | A        | 5.0 | 1.16  | B        | 10  | 1.25  | C        | 20  | 1.33  | D        | 50  | 1.15  | E        | 80  | 1.34  |
|                              | F        | 100 | 1.43  | G        | 120 | 1.36  | H        | 160 | 1.39  | I        | 200 | 1.36  |          |     |       |
| 1,3-Dichlorobenzene          | A        | 5.0 | 1.33  | B        | 10  | 1.39  | C        | 20  | 1.45  | D        | 50  | 1.31  | E        | 80  | 1.39  |
|                              | F        | 100 | 1.43  | G        | 120 | 1.43  | H        | 160 | 1.39  | I        | 200 | 1.36  |          |     |       |
| † 1,4-Dichlorobenzene        | A        | 5.0 | 1.37  | B        | 10  | 1.45  | C        | 20  | 1.46  | D        | 50  | 1.28  | E        | 80  | 1.48  |
|                              | F        | 100 | 1.44  | G        | 120 | 1.45  | H        | 160 | 1.44  | I        | 200 | 1.36  |          |     |       |
| 1,2-Dichlorobenzene          | A        | 5.0 | 1.28  | B        | 10  | 1.31  | C        | 20  | 1.36  | D        | 50  | 1.24  | E        | 80  | 1.41  |
|                              | F        | 100 | 1.36  | G        | 120 | 1.40  | H        | 160 | 1.33  | I        | 200 | 1.36  |          |     |       |
| Benzyl Alcohol               |          |     |       | B        | 10  | 0.704 | C        | 20  | 0.752 | D        | 50  | 0.686 | E        | 80  | 0.838 |
|                              | F        | 100 | 0.843 | G        | 120 | 0.894 | H        | 160 | 0.879 | I        | 200 | 0.839 |          |     |       |
| Bis(2-chloroisopropyl) Ether |          |     |       | B        | 10  | 1.81  | C        | 20  | 1.82  | D        | 50  | 1.63  | E        | 80  | 2.01  |
|                              | F        | 100 | 2.16  | G        | 120 | 2.18  | H        | 160 | 2.25  | I        | 200 | 2.20  |          |     |       |
| 2-Methylphenol               | A        | 5.0 | 0.981 | B        | 10  | 0.983 | C        | 20  | 0.985 | D        | 50  | 0.838 | E        | 80  | 1.04  |
|                              | F        | 100 | 1.02  | G        | 120 | 0.997 | H        | 160 | 1.05  | I        | 200 | 0.964 |          |     |       |
| Hexachloroethane             | A        | 5.0 | 0.579 | B        | 10  | 0.644 | C        | 20  | 0.660 | D        | 50  | 0.598 | E        | 80  | 0.692 |
|                              | F        | 100 | 0.699 | G        | 120 | 0.678 | H        | 160 | 0.653 | I        | 200 | 0.590 |          |     |       |
| † N-Nitrosodi-n-propylamine  | A        | 5.0 | 0.866 | B        | 10  | 0.899 | C        | 20  | 0.946 | D        | 50  | 0.757 | E        | 80  | 1.06  |
|                              | F        | 100 | 1.09  | G        | 120 | 1.11  | H        | 160 | 1.11  | I        | 200 | 1.02  |          |     |       |
| 4-Methylphenol               | A        | 5.0 | 1.37  | B        | 10  | 1.36  | C        | 20  | 1.44  | D        | 50  | 1.33  | E        | 80  | 1.63  |
|                              | F        | 100 | 1.63  | G        | 120 | 1.67  | H        | 160 | 1.56  | I        | 200 | 1.45  |          |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                | Level |     |       | Level |     |       | Level |     |       | Level |     |       | Level |     |       |
|-----------------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|
|                             | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |
| Nitrobenzene                |       |     |       | B     | 10  | 1.24  | C     | 20  | 1.31  | D     | 50  | 1.21  | E     | 80  | 1.40  |
|                             | F     | 100 | 1.46  | G     | 120 | 1.46  | H     | 160 | 1.50  | I     | 200 | 1.33  |       |     |       |
| Isophorone                  | A     | 5.0 | 0.711 | B     | 10  | 0.701 | C     | 20  | 0.765 | D     | 50  | 0.630 | E     | 80  | 0.760 |
|                             | F     | 100 | 0.681 | G     | 120 | 0.768 | H     | 160 | 0.731 | I     | 200 | 0.747 |       |     |       |
| ‡ 2-Nitrophenol             | A     | 5.0 | 0.182 | B     | 10  | 0.183 | C     | 20  | 0.204 | D     | 50  | 0.173 | E     | 80  | 0.206 |
|                             | F     | 100 | 0.190 | G     | 120 | 0.218 | H     | 160 | 0.217 | I     | 200 | 0.217 |       |     |       |
| 2,4-Dimethylphenol          | A     | 5.0 | 0.264 | B     | 10  | 0.234 | C     | 20  | 0.266 | D     | 50  | 0.245 | E     | 80  | 0.281 |
|                             | F     | 100 | 0.271 | G     | 120 | 0.282 | H     | 160 | 0.273 | I     | 200 | 0.277 |       |     |       |
| Bis(2-chloroethoxy)methane  | A     | 5.0 | 0.391 | B     | 10  | 0.393 | C     | 20  | 0.425 | D     | 50  | 0.375 | E     | 80  | 0.412 |
|                             | F     | 100 | 0.410 | G     | 120 | 0.426 | H     | 160 | 0.395 | I     | 200 | 0.421 |       |     |       |
| ‡ 2,4-Dichlorophenol        | A     | 5.0 | 0.273 | B     | 10  | 0.290 | C     | 20  | 0.315 | D     | 50  | 0.286 | E     | 80  | 0.303 |
|                             | F     | 100 | 0.294 | G     | 120 | 0.341 | H     | 160 | 0.310 | I     | 200 | 0.303 |       |     |       |
| Benzoic Acid                |       |     |       |       |     |       | C     | 20  | 0.196 | D     | 50  | 0.203 | E     | 80  | 0.235 |
|                             | F     | 100 | 0.222 | G     | 120 | 0.256 | H     | 160 | 0.241 | I     | 200 | 0.241 |       |     |       |
| 1,2,4-Trichlorobenzene      | A     | 5.0 | 0.318 | B     | 10  | 0.326 | C     | 20  | 0.339 | D     | 50  | 0.300 | E     | 80  | 0.335 |
|                             | F     | 100 | 0.318 | G     | 120 | 0.332 | H     | 160 | 0.311 | I     | 200 | 0.304 |       |     |       |
| Naphthalene                 | A     | 5.0 | 0.986 | B     | 10  | 1.00  | C     | 20  | 1.01  | D     | 50  | 0.889 | E     | 80  | 0.980 |
|                             | F     | 100 | 0.935 | G     | 120 | 1.01  | H     | 160 | 0.940 | I     | 200 | 0.884 |       |     |       |
| 4-Chloroaniline             | A     | 5.0 | 0.433 | B     | 10  | 0.434 | C     | 20  | 0.462 | D     | 50  | 0.407 | E     | 80  | 0.421 |
|                             | F     | 100 | 0.409 | G     | 120 | 0.426 | H     | 160 | 0.405 | I     | 200 | 0.414 |       |     |       |
| ‡ Hexachlorobutadiene       | A     | 5.0 | 0.202 | B     | 10  | 0.201 | C     | 20  | 0.218 | D     | 50  | 0.191 | E     | 80  | 0.218 |
|                             | F     | 100 | 0.211 | G     | 120 | 0.206 | H     | 160 | 0.191 | I     | 200 | 0.190 |       |     |       |
| ‡ 4-Chloro-3-methylphenol   | A     | 5.0 | 0.319 | B     | 10  | 0.318 | C     | 20  | 0.322 | D     | 50  | 0.310 | E     | 80  | 0.345 |
|                             | F     | 100 | 0.299 | G     | 120 | 0.334 | H     | 160 | 0.293 | I     | 200 | 0.294 |       |     |       |
| 2-Methylnaphthalene         | A     | 5.0 | 0.626 | B     | 10  | 0.628 | C     | 20  | 0.658 | D     | 50  | 0.582 | E     | 80  | 0.639 |
|                             | F     | 100 | 0.585 | G     | 120 | 0.646 | H     | 160 | 0.592 | I     | 200 | 0.540 |       |     |       |
| † Hexachlorocyclopentadiene |       |     |       | B     | 10  | 0.211 | C     | 20  | 0.297 | D     | 50  | 0.327 | E     | 80  | 0.387 |
|                             | F     | 100 | 0.465 | G     | 120 | 0.436 | H     | 160 | 0.424 | I     | 200 | 0.438 |       |     |       |
| ‡ 2,4,6-Trichlorophenol     | A     | 5.0 | 0.373 | B     | 10  | 0.389 | C     | 20  | 0.417 | D     | 50  | 0.388 | E     | 80  | 0.413 |
|                             | F     | 100 | 0.449 | G     | 120 | 0.429 | H     | 160 | 0.427 | I     | 200 | 0.427 |       |     |       |
| 2,4,5-Trichlorophenol       | A     | 5.0 | 0.418 | B     | 10  | 0.427 | C     | 20  | 0.439 | D     | 50  | 0.438 | E     | 80  | 0.449 |
|                             | F     | 100 | 0.503 | G     | 120 | 0.494 | H     | 160 | 0.479 | I     | 200 | 0.490 |       |     |       |
| 2-Chloronaphthalene         | A     | 5.0 | 1.13  | B     | 10  | 1.08  | C     | 20  | 1.10  | D     | 50  | 1.11  | E     | 80  | 1.18  |
|                             | F     | 100 | 1.25  | G     | 120 | 1.16  | H     | 160 | 1.20  | I     | 200 | 1.20  |       |     |       |
| 2-Nitroaniline              | A     | 5.0 | 0.332 | B     | 10  | 0.361 | C     | 20  | 0.388 | D     | 50  | 0.353 | E     | 80  | 0.389 |
|                             | F     | 100 | 0.365 | G     | 120 | 0.404 | H     | 160 | 0.401 | I     | 200 | 0.358 |       |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010

Initial Calibration Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
Instrument ID: MS07

Column: MS

| Analyte Name                | Level ID |     |       | Level ID |     |       | Level ID |     |       | Level ID |     |       | Level ID |     |       |
|-----------------------------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|----------|-----|-------|
|                             | ID       | Amt | RRF   | ID       | Amt | RRF   | ID       | Amt | RRF   | ID       | Amt | RRF   | ID       | Amt | RRF   |
| Acenaphthylene              | A        | 5.0 | 1.73  | B        | 10  | 1.76  | C        | 20  | 1.84  | D        | 50  | 1.67  | E        | 80  | 1.79  |
|                             | F        | 100 | 1.89  | G        | 120 | 1.81  | H        | 160 | 1.76  | I        | 200 | 1.78  |          |     |       |
| Dimethyl Phthalate          | A        | 5.0 | 1.49  | B        | 10  | 1.42  | C        | 20  | 1.48  | D        | 50  | 1.36  | E        | 80  | 1.34  |
|                             | F        | 100 | 1.31  | G        | 120 | 1.33  | H        | 160 | 1.28  | I        | 200 | 1.21  |          |     |       |
| 2,6-Dinitrotoluene          | A        | 5.0 | 0.316 | B        | 10  | 0.315 | C        | 20  | 0.320 | D        | 50  | 0.286 | E        | 80  | 0.319 |
|                             | F        | 100 | 0.311 | G        | 120 | 0.303 | H        | 160 | 0.299 | I        | 200 | 0.305 |          |     |       |
| ‡ Acenaphthene              | A        | 5.0 | 1.10  | B        | 10  | 1.06  | C        | 20  | 1.04  | D        | 50  | 0.936 | E        | 80  | 1.01  |
|                             | F        | 100 | 1.02  | G        | 120 | 1.02  | H        | 160 | 0.990 | I        | 200 | 0.982 |          |     |       |
| 3-Nitroaniline              | A        | 5.0 | 0.312 | B        | 10  | 0.330 | C        | 20  | 0.341 | D        | 50  | 0.318 | E        | 80  | 0.340 |
|                             | F        | 100 | 0.314 | G        | 120 | 0.318 | H        | 160 | 0.317 | I        | 200 | 0.327 |          |     |       |
| † 2,4-Dinitrophenol         |          |     |       |          |     |       | C        | 20  | 0.126 | D        | 50  | 0.173 | E        | 80  | 0.191 |
|                             | F        | 100 | 0.189 | G        | 120 | 0.188 | H        | 160 | 0.196 | I        | 200 | 0.187 |          |     |       |
| Dibenzofuran                | A        | 5.0 | 1.62  | B        | 10  | 1.71  | C        | 20  | 1.71  | D        | 50  | 1.60  | E        | 80  | 1.66  |
|                             | F        | 100 | 1.58  | G        | 120 | 1.57  | H        | 160 | 1.55  | I        | 200 | 1.43  |          |     |       |
| † 4-Nitrophenol             |          |     |       |          |     |       | C        | 20  | 0.149 | D        | 50  | 0.168 | E        | 80  | 0.186 |
|                             | F        | 100 | 0.180 | G        | 120 | 0.179 | H        | 160 | 0.183 | I        | 200 | 0.184 |          |     |       |
| 2,4-Dinitrotoluene          | A        | 5.0 | 0.442 | B        | 10  | 0.421 | C        | 20  | 0.412 | D        | 50  | 0.379 | E        | 80  | 0.401 |
|                             | F        | 100 | 0.365 | G        | 120 | 0.362 | H        | 160 | 0.369 | I        | 200 | 0.364 |          |     |       |
| Fluorene                    | A        | 5.0 | 1.34  | B        | 10  | 1.29  | C        | 20  | 1.25  | D        | 50  | 1.20  | E        | 80  | 1.21  |
|                             | F        | 100 | 1.18  | G        | 120 | 1.12  | H        | 160 | 1.16  | I        | 200 | 1.07  |          |     |       |
| 4-Chlorophenyl Phenyl Ether | A        | 5.0 | 0.653 | B        | 10  | 0.664 | C        | 20  | 0.646 | D        | 50  | 0.591 | E        | 80  | 0.636 |
|                             | F        | 100 | 0.587 | G        | 120 | 0.605 | H        | 160 | 0.586 | I        | 200 | 0.568 |          |     |       |
| Diethyl Phthalate           |          |     |       | B        | 10  | 1.52  | C        | 20  | 1.50  | D        | 50  | 1.30  | E        | 80  | 1.41  |
|                             | F        | 100 | 1.23  | G        | 120 | 1.26  | H        | 160 | 1.15  | I        | 200 | 1.15  |          |     |       |
| 4-Nitroaniline              | A        | 5.0 | 0.264 | B        | 10  | 0.281 | C        | 20  | 0.278 | D        | 50  | 0.284 | E        | 80  | 0.287 |
|                             | F        | 100 | 0.278 | G        | 120 | 0.281 | H        | 160 | 0.284 | I        | 200 | 0.289 |          |     |       |
| 2-Methyl-4,6-dinitrophenol  |          |     |       |          |     |       | C        | 20  | 0.188 | D        | 50  | 0.221 | E        | 80  | 0.230 |
|                             | F        | 100 | 0.209 | G        | 120 | 0.215 | H        | 160 | 0.219 | I        | 200 | 0.205 |          |     |       |
| ‡ N-Nitrosodiphenylamine    | A        | 5.0 | 0.904 | B        | 10  | 0.854 | C        | 20  | 0.852 | D        | 50  | 0.892 | E        | 80  | 0.789 |
|                             | F        | 100 | 0.752 | G        | 120 | 0.753 | H        | 160 | 0.728 | I        | 200 | 0.688 |          |     |       |
| 4-Bromophenyl Phenyl Ether  | A        | 5.0 | 0.213 | B        | 10  | 0.226 | C        | 20  | 0.243 | D        | 50  | 0.218 | E        | 80  | 0.267 |
|                             | F        | 100 | 0.257 | G        | 120 | 0.263 | H        | 160 | 0.250 | I        | 200 | 0.233 |          |     |       |
| Hexachlorobenzene           | A        | 5.0 | 0.269 | B        | 10  | 0.266 | C        | 20  | 0.277 | D        | 50  | 0.257 | E        | 80  | 0.306 |
|                             | F        | 100 | 0.297 | G        | 120 | 0.289 | H        | 160 | 0.281 | I        | 200 | 0.274 |          |     |       |
| ‡ Pentachlorophenol         |          |     |       |          |     |       | C        | 20  | 0.125 | D        | 50  | 0.142 | E        | 80  | 0.171 |
|                             | F        | 100 | 0.158 | G        | 120 | 0.169 | H        | 160 | 0.166 | I        | 200 | 0.169 |          |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                | Level |     |       | Level |     |       | Level |     |       | Level |     |       | Level |     |       |
|-----------------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|
|                             | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   |
| Phenanthrene                | A     | 5.0 | 1.15  | B     | 10  | 1.14  | C     | 20  | 1.09  | D     | 50  | 0.980 | E     | 80  | 1.15  |
|                             | F     | 100 | 1.00  | G     | 120 | 1.04  | H     | 160 | 1.00  | I     | 200 | 1.01  |       |     |       |
| Anthracene                  | A     | 5.0 | 1.15  | B     | 10  | 1.12  | C     | 20  | 1.10  | D     | 50  | 1.04  | E     | 80  | 1.21  |
|                             | F     | 100 | 1.15  | G     | 120 | 1.13  | H     | 160 | 1.10  | I     | 200 | 1.06  |       |     |       |
| Di-n-butyl Phthalate        | A     | 5.0 | 1.26  | B     | 10  | 1.09  | C     | 20  | 1.15  | D     | 50  | 1.16  | E     | 80  | 1.33  |
|                             | F     | 100 | 1.28  | G     | 120 | 1.25  | H     | 160 | 1.19  | I     | 200 | 1.25  |       |     |       |
| ‡ Fluoranthene              | A     | 5.0 | 0.954 | B     | 10  | 0.890 | C     | 20  | 0.817 | D     | 50  | 0.817 | E     | 80  | 0.968 |
|                             | F     | 100 | 1.04  | G     | 120 | 1.04  | H     | 160 | 1.04  | I     | 200 | 1.10  |       |     |       |
| Pyrene                      |       |     |       | B     | 10  | 1.28  | C     | 20  | 1.15  | D     | 50  | 1.08  | E     | 80  | 1.03  |
|                             | F     | 100 | 0.965 | G     | 120 | 0.970 | H     | 160 | 0.958 | I     | 200 | 1.11  |       |     |       |
| Butyl Benzyl Phthalate      | A     | 5.0 | 0.581 | B     | 10  | 0.542 | C     | 20  | 0.606 | D     | 50  | 0.565 | E     | 80  | 0.647 |
|                             | F     | 100 | 0.607 | G     | 120 | 0.626 | H     | 160 | 0.620 | I     | 200 | 0.680 |       |     |       |
| 3,3'-Dichlorobenzidine      | A     | 5.0 | 0.404 | B     | 10  | 0.399 | C     | 20  | 0.423 | D     | 50  | 0.427 | E     | 80  | 0.465 |
|                             | F     | 100 | 0.430 | G     | 120 | 0.415 | H     | 160 | 0.398 | I     | 200 | 0.402 |       |     |       |
| Benz(a)anthracene           | A     | 5.0 | 0.973 | B     | 10  | 0.885 | C     | 20  | 0.921 | D     | 50  | 0.905 | E     | 80  | 1.02  |
|                             | F     | 100 | 0.963 | G     | 120 | 0.923 | H     | 160 | 0.914 | I     | 200 | 0.952 |       |     |       |
| Chrysene                    | A     | 5.0 | 1.01  | B     | 10  | 0.878 | C     | 20  | 0.894 | D     | 50  | 0.882 | E     | 80  | 0.958 |
|                             | F     | 100 | 0.911 | G     | 120 | 0.877 | H     | 160 | 0.866 | I     | 200 | 0.918 |       |     |       |
| Bis(2-ethylhexyl) Phthalate | A     | 5.0 | 0.827 | B     | 10  | 0.765 | C     | 20  | 0.860 | D     | 50  | 0.809 | E     | 80  | 0.896 |
|                             | F     | 100 | 0.902 | G     | 120 | 0.924 | H     | 160 | 0.901 | I     | 200 | 0.908 |       |     |       |
| ‡ Di-n-octyl Phthalate      |       |     |       | B     | 10  | 1.37  | C     | 20  | 1.40  | D     | 50  | 1.58  | E     | 80  | 1.81  |
|                             | F     | 100 | 1.99  | G     | 120 | 1.96  | H     | 160 | 2.00  | I     | 200 | 1.98  |       |     |       |
| Benzo(b)fluoranthene        |       |     |       | B     | 10  | 0.873 | C     | 20  | 0.966 | D     | 50  | 0.943 | E     | 80  | 1.04  |
|                             | F     | 100 | 1.11  | G     | 120 | 1.04  | H     | 160 | 1.12  | I     | 200 | 1.15  |       |     |       |
| Benzo(k)fluoranthene        | A     | 5.0 | 0.941 | B     | 10  | 0.944 | C     | 20  | 1.03  | D     | 50  | 1.03  | E     | 80  | 1.09  |
|                             | F     | 100 | 1.14  | G     | 120 | 1.18  | H     | 160 | 1.10  | I     | 200 | 1.17  |       |     |       |
| ‡ Benzo(a)pyrene            |       |     |       | B     | 10  | 0.799 | C     | 20  | 0.843 | D     | 50  | 0.788 | E     | 80  | 0.871 |
|                             | F     | 100 | 0.874 | G     | 120 | 0.881 | H     | 160 | 0.899 | I     | 200 | 0.891 |       |     |       |
| Indeno(1,2,3-cd)pyrene      | A     | 5.0 | 0.706 | B     | 10  | 0.671 | C     | 20  | 0.684 | D     | 50  | 0.687 | E     | 80  | 0.758 |
|                             | F     | 100 | 0.750 | G     | 120 | 0.785 | H     | 160 | 0.813 | I     | 200 | 0.816 |       |     |       |
| Dibenz(a,h)anthracene       | A     | 5.0 | 0.758 | B     | 10  | 0.689 | C     | 20  | 0.761 | D     | 50  | 0.713 | E     | 80  | 0.812 |
|                             | F     | 100 | 0.819 | G     | 120 | 0.809 | H     | 160 | 0.859 | I     | 200 | 0.885 |       |     |       |
| Benzo(g,h,i)perylene        | A     | 5.0 | 0.819 | B     | 10  | 0.799 | C     | 20  | 0.777 | D     | 50  | 0.744 | E     | 80  | 0.778 |
|                             | F     | 100 | 0.772 | G     | 120 | 0.832 | H     | 160 | 0.809 | I     | 200 | 0.870 |       |     |       |
| 2-Fluorophenol              | A     | 5.0 | 0.897 | B     | 10  | 1.01  | C     | 20  | 1.02  | D     | 50  | 1.07  | E     | 80  | 1.08  |
|                             | F     | 100 | 1.15  | G     | 120 | 1.12  | H     | 160 | 1.12  | I     | 200 | 1.11  |       |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name         | Level |     |       | Level |     |       | Level |     |       | Level |     |       |    |     |       |
|----------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|----|-----|-------|
|                      | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID    | Amt | RRF   | ID | Amt | RRF   |
| Phenol-d6            | A     | 5.0 | 1.24  | B     | 10  | 1.40  | C     | 20  | 1.40  | D     | 50  | 1.43  | E  | 80  | 1.52  |
|                      | F     | 100 | 1.60  | G     | 120 | 1.60  | H     | 160 | 1.61  | I     | 200 | 1.55  |    |     |       |
| Nitrobenzene-d5      |       |     |       | B     | 10  | 1.27  | C     | 20  | 1.32  | D     | 50  | 1.34  | E  | 80  | 1.50  |
|                      | F     | 100 | 1.55  | G     | 120 | 1.53  | H     | 160 | 1.58  | I     | 200 | 1.50  |    |     |       |
| 2-Fluorobiphenyl     | A     | 5.0 | 1.21  | B     | 10  | 1.26  | C     | 20  | 1.26  | D     | 50  | 1.31  | E  | 80  | 1.24  |
|                      | F     | 100 | 1.47  | G     | 120 | 1.38  | H     | 160 | 1.35  | I     | 200 | 1.32  |    |     |       |
| 2,4,6-Tribromophenol |       |     |       | B     | 10  | 0.133 | C     | 20  | 0.155 | D     | 50  | 0.160 | E  | 80  | 0.180 |
|                      | F     | 100 | 0.173 | G     | 120 | 0.175 | H     | 160 | 0.161 | I     | 200 | 0.160 |    |     |       |
| Terphenyl-d14        |       |     |       | B     | 10  | 0.644 | C     | 20  | 0.659 | D     | 50  | 0.674 | E  | 80  | 0.595 |
|                      | F     | 100 | 0.564 | G     | 120 | 0.551 | H     | 160 | 0.587 | I     | 200 | 0.625 |    |     |       |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                 | Compound Type | Calibration Evaluation |       |              |   |                  | RRF Evaluation |   |             |
|------------------------------|---------------|------------------------|-------|--------------|---|------------------|----------------|---|-------------|
|                              |               | Fit Type               | Eval. | Eval. Result | Q | Control Criteria | Average RRF    | Q | Minimum RRF |
| N-Nitrosodimethylamine       | TRG           | AverageRF              | % RSD | 6.0          |   | ≤ 15             | 0.956          |   | 0.01        |
| Aniline                      | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 1.50           |   | 0.01        |
| Bis(2-chloroethyl) Ether     | TRG           | AverageRF              | % RSD | 9.3          |   | ≤ 15             | 1.21           |   | 0.01        |
| * Phenol                     | MS            | AverageRF              | % RSD | 8.7          |   | ≤ 15             | 1.52           |   | 0.01        |
| 2-Chlorophenol               | MS            | AverageRF              | % RSD | 7.6          |   | ≤ 15             | 1.31           |   | 0.01        |
| 1,3-Dichlorobenzene          | TRG           | AverageRF              | % RSD | 3.5          |   | ≤ 15             | 1.39           |   | 0.01        |
| * 1,4-Dichlorobenzene        | MS            | AverageRF              | % RSD | 4.5          |   | ≤ 15             | 1.41           |   | 0.01        |
| 1,2-Dichlorobenzene          | TRG           | AverageRF              | % RSD | 4.1          |   | ≤ 15             | 1.34           |   | 0.01        |
| Benzyl Alcohol               | TRG           | AverageRF              | % RSD | 9.9          |   | ≤ 15             | 0.804          |   | 0.01        |
| Bis(2-chloroisopropyl) Ether | TRG           | AverageRF              | % RSD | 11.5         |   | ≤ 15             | 2.01           |   | 0.01        |
| 2-Methylphenol               | TRG           | AverageRF              | % RSD | 6.2          |   | ≤ 15             | 0.984          |   | 0.01        |
| Hexachloroethane             | TRG           | AverageRF              | % RSD | 7.0          |   | ≤ 15             | 0.644          |   | 0.01        |
| † N-Nitrosodi-n-propylamine  | MS            | AverageRF              | % RSD | 12.7         |   | ≤ 15             | 0.985          |   | 0.05        |
| 4-Methylphenol               | TRG           | AverageRF              | % RSD | 8.8          |   | ≤ 15             | 1.49           |   | 0.01        |
| Nitrobenzene                 | TRG           | AverageRF              | % RSD | 7.9          |   | ≤ 15             | 1.36           |   | 0.01        |
| Isophorone                   | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.722          |   | 0.01        |
| * 2-Nitrophenol              | TRG           | AverageRF              | % RSD | 8.7          |   | ≤ 15             | 0.199          |   | 0.01        |
| 2,4-Dimethylphenol           | TRG           | AverageRF              | % RSD | 6.1          |   | ≤ 15             | 0.266          |   | 0.01        |
| Bis(2-chloroethoxy)methane   | TRG           | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.405          |   | 0.01        |
| * 2,4-Dichlorophenol         | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 0.302          |   | 0.01        |
| Benzoic Acid                 | TRG           | AverageRF              | % RSD | 9.6          |   | ≤ 15             | 0.228          |   | 0.01        |
| 1,2,4-Trichlorobenzene       | MS            | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.320          |   | 0.01        |
| Naphthalene                  | TRG           | AverageRF              | % RSD | 5.2          |   | ≤ 15             | 0.960          |   | 0.01        |
| 4-Chloroaniline              | TRG           | AverageRF              | % RSD | 4.3          |   | ≤ 15             | 0.423          |   | 0.01        |
| * Hexachlorobutadiene        | TRG           | AverageRF              | % RSD | 5.5          |   | ≤ 15             | 0.203          |   | 0.01        |
| * 4-Chloro-3-methylphenol    | MS            | AverageRF              | % RSD | 5.6          |   | ≤ 15             | 0.315          |   | 0.01        |
| 2-Methylnaphthalene          | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.611          |   | 0.01        |
| † Hexachlorocyclopentadiene  | TRG           | Quadratic              | COD   | 0.993        |   | ≥ 0.990          | 0.373          |   | 0.05        |
| * 2,4,6-Trichlorophenol      | TRG           | AverageRF              | % RSD | 5.9          |   | ≤ 15             | 0.413          |   | 0.01        |
| 2,4,5-Trichlorophenol        | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 0.460          |   | 0.01        |
| 2-Chloronaphthalene          | TRG           | AverageRF              | % RSD | 4.8          |   | ≤ 15             | 1.16           |   | 0.01        |
| 2-Nitroaniline               | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 0.372          |   | 0.01        |
| Acenaphthylene               | TRG           | AverageRF              | % RSD | 3.6          |   | ≤ 15             | 1.78           |   | 0.01        |
| Dimethyl Phthalate           | TRG           | AverageRF              | % RSD | 6.7          |   | ≤ 15             | 1.36           |   | 0.01        |
| 2,6-Dinitrotoluene           | TRG           | AverageRF              | % RSD | 3.6          |   | ≤ 15             | 0.308          |   | 0.01        |
| * Acenaphthene               | MS            | AverageRF              | % RSD | 4.6          |   | ≤ 15             | 1.02           |   | 0.01        |
| 3-Nitroaniline               | TRG           | AverageRF              | % RSD | 3.4          |   | ≤ 15             | 0.324          |   | 0.01        |
| † 2,4-Dinitrophenol          | TRG           | AverageRF              | % RSD | 13.5         |   | ≤ 15             | 0.179          |   | 0.05        |
| Dibenzofuran                 | TRG           | AverageRF              | % RSD | 5.4          |   | ≤ 15             | 1.60           |   | 0.01        |
| † 4-Nitrophenol              | MS            | AverageRF              | % RSD | 7.4          |   | ≤ 15             | 0.176          |   | 0.05        |
| 2,4-Dinitrotoluene           | MS            | AverageRF              | % RSD | 7.5          |   | ≤ 15             | 0.391          |   | 0.01        |
| Fluorene                     | TRG           | AverageRF              | % RSD | 7.0          |   | ≤ 15             | 1.20           |   | 0.01        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010

Initial Calibration Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration ID: CAL9525  
 Instrument ID: MS07

Column: MS

| Analyte Name                | Compound Type | Calibration Evaluation |       |              |   |                  | RRF Evaluation |   |             |
|-----------------------------|---------------|------------------------|-------|--------------|---|------------------|----------------|---|-------------|
|                             |               | Fit Type               | Eval. | Eval. Result | Q | Control Criteria | Average RRF    | Q | Minimum RRF |
| 4-Chlorophenyl Phenyl Ether | TRG           | AverageRF              | % RSD | 5.7          |   | ≤ 15             | 0.615          |   | 0.01        |
| Diethyl Phthalate           | TRG           | AverageRF              | % RSD | 11.0         |   | ≤ 15             | 1.31           |   | 0.01        |
| 4-Nitroaniline              | TRG           | AverageRF              | % RSD | 2.6          |   | ≤ 15             | 0.281          |   | 0.01        |
| 2-Methyl-4,6-dinitrophenol  | TRG           | AverageRF              | % RSD | 6.4          |   | ≤ 15             | 0.212          |   | 0.01        |
| † N-Nitrosodiphenylamine    | TRG           | AverageRF              | % RSD | 9.6          |   | ≤ 15             | 0.801          |   | 0.01        |
| 4-Bromophenyl Phenyl Ether  | TRG           | AverageRF              | % RSD | 8.1          |   | ≤ 15             | 0.241          |   | 0.01        |
| Hexachlorobenzene           | TRG           | AverageRF              | % RSD | 5.6          |   | ≤ 15             | 0.280          |   | 0.01        |
| † Pentachlorophenol         | MS            | AverageRF              | % RSD | 11.0         |   | ≤ 15             | 0.157          |   | 0.01        |
| Phenanthrene                | TRG           | AverageRF              | % RSD | 6.5          |   | ≤ 15             | 1.06           |   | 0.01        |
| Anthracene                  | TRG           | AverageRF              | % RSD | 4.6          |   | ≤ 15             | 1.12           |   | 0.01        |
| Di-n-butyl Phthalate        | TRG           | AverageRF              | % RSD | 6.2          |   | ≤ 15             | 1.22           |   | 0.01        |
| † Fluoranthene              | TRG           | AverageRF              | % RSD | 10.7         |   | ≤ 15             | 0.964          |   | 0.01        |
| Pyrene                      | MS            | AverageRF              | % RSD | 10.4         |   | ≤ 15             | 1.07           |   | 0.01        |
| Butyl Benzyl Phthalate      | TRG           | AverageRF              | % RSD | 6.9          |   | ≤ 15             | 0.608          |   | 0.01        |
| 3,3'-Dichlorobenzidine      | TRG           | AverageRF              | % RSD | 5.1          |   | ≤ 15             | 0.418          |   | 0.01        |
| Benz(a)anthracene           | TRG           | AverageRF              | % RSD | 4.5          |   | ≤ 15             | 0.940          |   | 0.01        |
| Chrysene                    | TRG           | AverageRF              | % RSD | 5.1          |   | ≤ 15             | 0.910          |   | 0.01        |
| Bis(2-ethylhexyl) Phthalate | TRG           | AverageRF              | % RSD | 6.3          |   | ≤ 15             | 0.866          |   | 0.01        |
| † Di-n-octyl Phthalate      | TRG           | Quadratic              | COD   | 0.998        |   | ≥ 0.990          | 1.76           |   | 0.01        |
| Benzo(b)fluoranthene        | TRG           | AverageRF              | % RSD | 9.4          |   | ≤ 15             | 1.03           |   | 0.01        |
| Benzo(k)fluoranthene        | TRG           | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.07           |   | 0.01        |
| † Benzo(a)pyrene            | TRG           | AverageRF              | % RSD | 4.9          |   | ≤ 15             | 0.856          |   | 0.01        |
| Indeno(1,2,3-cd)pyrene      | TRG           | AverageRF              | % RSD | 7.6          |   | ≤ 15             | 0.741          |   | 0.01        |
| Dibenz(a,h)anthracene       | TRG           | AverageRF              | % RSD | 8.2          |   | ≤ 15             | 0.789          |   | 0.01        |
| Benzo(g,h,i)perylene        | TRG           | AverageRF              | % RSD | 4.7          |   | ≤ 15             | 0.800          |   | 0.01        |
| 2-Fluorophenol              | SURR          | AverageRF              | % RSD | 7.3          |   | ≤ 15             | 1.06           |   | 0.01        |
| Phenol-d6                   | SURR          | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.48           |   | 0.01        |
| Nitrobenzene-d5             | SURR          | AverageRF              | % RSD | 8.3          |   | ≤ 15             | 1.45           |   | 0.01        |
| 2-Fluorobiphenyl            | SURR          | AverageRF              | % RSD | 6.1          |   | ≤ 15             | 1.31           |   | 0.01        |
| 2,4,6-Tribromophenol        | SURR          | AverageRF              | % RSD | 9.2          |   | ≤ 15             | 0.162          |   | 0.01        |
| Terphenyl-d14               | SURR          | AverageRF              | % RSD | 7.3          |   | ≤ 15             | 0.612          |   | 0.01        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Calibration Date: 06/02/2010  
 Date Analyzed: 06/02/2010 -  
 06/03/2010

Second Source Calibration Verification  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration ID: CAL9525  
 Units: ug/ml

File ID: J:\MS07\DATA\060210\0602F013.D  
 J:\MS07\DATA\060210\0602F014.D  
 J:\MS07\DATA\060210\0602F016.D

| Analyte Name                 | Expected | Result | Average RF | SSV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 76     | 0.956      | 0.912  | -5  | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 99     | 1.50       | 1.85   | 23  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 85     | 1.21       | 1.28   | 6   | NA     | ± 30 %   | AverageRF |
| ‡ Phenol                     | 80       | 86     | 1.52       | 1.64   | 8   | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 83     | 1.31       | 1.36   | 4   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 79     | 1.39       | 1.37   | -1  | NA     | ± 30 %   | AverageRF |
| ‡ 1,4-Dichlorobenzene        | 80       | 81     | 1.41       | 1.43   | 1   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 83     | 1.34       | 1.38   | 3   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 88     | 0.804      | 0.884  | 10  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 89     | 2.01       | 2.24   | 12  | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 81     | 0.984      | 0.991  | 1   | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 81     | 0.644      | 0.653  | 1   | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 77     | 0.985      | 0.949  | -4  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 84     | 1.49       | 1.57   | 5   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 79     | 1.36       | 1.35   | -1  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 76     | 0.722      | 0.686  | -5  | NA     | ± 30 %   | AverageRF |
| ‡ 2-Nitrophenol              | 80       | 82     | 0.199      | 0.204  | 3   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 83     | 0.266      | 0.276  | 4   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 86     | 0.405      | 0.434  | 7   | NA     | ± 30 %   | AverageRF |
| ‡ 2,4-Dichlorophenol         | 80       | 81     | 0.302      | 0.306  | 1   | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 78     | 0.228      | 0.222  | -3  | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 80     | 0.320      | 0.321  | 0   | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 80     | 0.960      | 0.962  | 0   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 74     | 0.423      | 0.392  | -7  | NA     | ± 30 %   | AverageRF |
| ‡ Hexachlorobutadiene        | 80       | 80     | 0.203      | 0.203  | 0   | NA     | ± 20 %   | AverageRF |
| ‡ 4-Chloro-3-methylphenol    | 80       | 73     | 0.315      | 0.287  | -9  | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 74     | 0.611      | 0.561  | -8  | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 65     | 0.373      | 0.326  | NA  | -19    | ± 30 %   | Quadratic |
| ‡ 2,4,6-Trichlorophenol      | 80       | 86     | 0.413      | 0.445  | 8   | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 81     | 0.460      | 0.466  | 1   | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 85     | 1.16       | 1.23   | 6   | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 78     | 0.372      | 0.362  | -3  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 68     | 1.78       | 1.51   | -15 | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 71     | 1.36       | 1.20   | -12 | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 75     | 0.308      | 0.288  | -7  | NA     | ± 30 %   | AverageRF |
| ‡ Acenaphthene               | 80       | 77     | 1.02       | 0.979  | -4  | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 72     | 0.324      | 0.293  | -10 | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 79     | 0.179      | 0.176  | -2  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Calibration Date: 06/02/2010  
Date Analyzed: 06/02/2010 -  
06/03/2010

Second Source Calibration Verification  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration ID: CAL9525  
Units: ug/ml

| Analyte Name                | Expected | Result | Average RF | SSV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 75     | 1.60       | 1.50   | -6  | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 75     | 0.176      | 0.165  | -6  | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 67     | 0.391      | 0.325  | -17 | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 71     | 1.20       | 1.07   | -11 | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 70     | 0.615      | 0.537  | -13 | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 70     | 1.31       | 1.14   | -13 | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 81     | 0.281      | 0.283  | 1   | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 83     | 0.212      | 0.220  | 3   | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 65     | 0.801      | 0.653  | -18 | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 78     | 0.241      | 0.234  | -3  | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 76     | 0.280      | 0.266  | -5  | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 79     | 0.157      | 0.155  | -1  | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 81     | 1.06       | 1.07   | 1   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 74     | 1.12       | 1.04   | -7  | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 83     | 1.22       | 1.26   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 80     | 0.964      | 0.962  | 0   | NA     | ± 30 %   | AverageRF |
| Pyrene                      | 80       | 68     | 1.07       | 0.905  | -15 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 79     | 0.608      | 0.604  | -1  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 75     | 0.418      | 0.393  | -6  | NA     | ± 30 %   | AverageRF |
| Benz(a)anthracene           | 80       | 74     | 0.940      | 0.866  | -8  | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 77     | 0.910      | 0.880  | -3  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 83     | 0.866      | 0.900  | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 87     | 1.76       | 2.07   | NA  | 9      | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 82     | 1.03       | 1.06   | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 83     | 1.07       | 1.12   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 96     | 0.856      | 1.02   | 20  | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 82     | 0.741      | 0.760  | 3   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 80     | 0.789      | 0.786  | 0   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 80     | 0.800      | 0.796  | -1  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

| Line | Vial | FileName   | Multiplier | SampleName                                     | Misc Info | Injected         |
|------|------|------------|------------|--|-----------|------------------|
| 1    | 1    | 0602f001.d | 1.         | 50PPM DFTPP SVM32-14A                          |           | 2 Jun 2010 14:14 |
| 2    | 2    | 0602f002.d | 1.         | <del>80PPM 8270 CCV SVM32-32L</del> <i>NR</i>  |           | 2 Jun 2010 14:55 |
| 3    | 1    | 0602f003.d | 1.         | IB   |           | 2 Jun 2010 16:38 |
| 4    | 2    | 0602f004.d | 1.         | 5PPM 8270 ICAL SVM32-21C                       |           | 2 Jun 2010 17:18 |
| 5    | 3    | 0602f005.d | 1.         | 10PPM 8270 ICAL SVM32-21D                      |           | 2 Jun 2010 17:58 |
| 6    | 4    | 0602f006.d | 1.         | 20PPM 8270 ICAL SVM32-21E                      |           | 2 Jun 2010 18:38 |
| 7    | 5    | 0602f007.d | 1.         | 50PPM 8270 ICAL SVM32-21F                      |           | 2 Jun 2010 19:19 |
| 8    | 6    | 0602f008.d | 1.         | 80PPM 8270 ICAL SVM32-21G                      |           | 2 Jun 2010 19:59 |
| 9    | 7    | 0602f009.d | 1.         | 100PPM 8270 ICAL SVM32-21H                     |           | 2 Jun 2010 20:39 |
| 10   | 8    | 0602f010.d | 1.         | 120PPM 8270 ICAL SVM32-21I                     |           | 2 Jun 2010 21:19 |
| 11   | 9    | 0602f011.d | 1.         | 160PPM 8270 ICAL SVM32-21J                     |           | 2 Jun 2010 22:00 |
| 12   | 10   | 0602f012.d | 1.         | 200PPM 8270 ICAL SVM32-21K                     |           | 2 Jun 2010 22:40 |
| 13   | 11   | 0602f013.d | 1.         | 80PPM 8270 ICV SVM32-21L                       |           | 2 Jun 2010 23:20 |
| 14   | 12   | 0602f014.d | 1.         | 80PPM ANILINE ICV SVM30-7D                     |           | 3 Jun 2010 00:01 |
| 15   | 13   | 0602f015.d | 1.         | <del>80PPM HCCPD ICV SVM32-22A</del> <i>NR</i> |           | 3 Jun 2010 00:41 |
| 16   | 14   | 0602f016.d | 1.         | 50PPM BENZ ICV SVM32-25F                       |           | 3 Jun 2010 01:21 |

8270/625 ICAL 9525

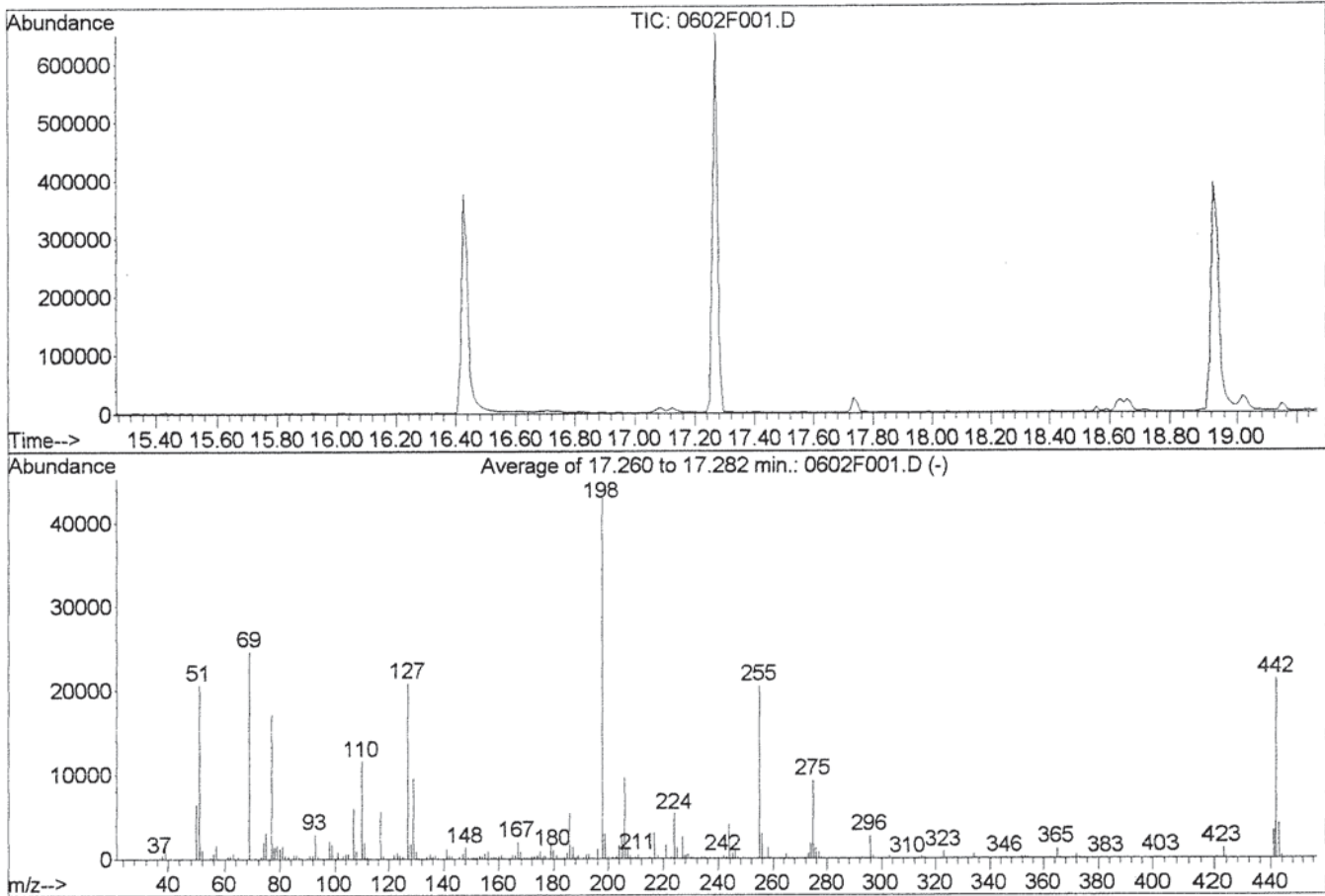
M 6-3-10

LB  
LIA/10



Data File : J:\MS07\DATA\060210\0602F001.D  
 Acq On : 2 Jun 2010 2:14 pm  
 Sample : 50PPM DFTPP SVM32-14A  
 Misc :  
 MS Integration Params: rteint.p  
 Method : J:\MS07\METHODS\BNA\0526APIX7.M (RTE Integrator)  
 Title : Method 8270 (App. IX) MS07

Vial : 1  
 Operator : M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00



Spectrum Information: Average of 17.260 to 17.282 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 30           | 60           | 47.6      | 20561   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 69          | 198          | 0.00         | 100          | 56.9      | 24593   | PASS             |
| 70          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 127         | 198          | 40           | 60           | 48.3      | 20860   | PASS             |
| 197         | 198          | 0.00         | 1            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 43221   | PASS             |
| 199         | 198          | 5            | 9            | 6.8       | 2948    | PASS             |
| 275         | 198          | 10           | 30           | 21.4      | 9252    | PASS             |
| 365         | 198          | 1            | 100          | 2.7       | 1168    | PASS             |
| 441         | 443          | 0.01         | 100          | 80.3      | 3292    | PASS             |
| 442         | 198          | 40           | 100          | 49.3      | 21307   | PASS             |
| 443         | 442          | 17           | 23           | 19.2      | 4101    | PASS             |

*Handwritten:* LB 6/7-10 6/4/10

Average of 17.260 to 17.282 min.: 0602F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 35.35 | 40     | 44.00 | 126    | 60.95 | 267    | 75.95 | 53     |
| 35.85 | 36     | 44.85 | 86     | 61.95 | 331    | 76.95 | 17071  |
| 36.15 | 42     | 50.00 | 6492   | 63.00 | 740    | 77.95 | 1379   |
| 36.75 | 40     | 51.00 | 20561  | 63.85 | 123    | 78.85 | 1609   |
| 37.00 | 170    | 51.95 | 1103   | 64.95 | 233    | 79.95 | 1192   |
| 37.95 | 421    | 53.00 | 43     | 65.85 | 33     | 80.95 | 1525   |
| 38.95 | 2063   | 54.90 | 187    | 68.95 | 24593  | 81.90 | 381    |
| 40.85 | 106    | 55.60 | 38     | 70.95 | 37     | 82.95 | 319    |
| 42.00 | 38     | 55.95 | 589    | 73.00 | 202    | 84.95 | 462    |
| 43.00 | 45     | 56.90 | 1642   | 73.95 | 1943   | 85.95 | 491    |
| 43.60 | 33     | 57.80 | 91     | 74.95 | 3110   | 86.70 | 38     |

Average of 17.260 to 17.282 min.: 0602F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z   | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 86.95 | 227    | 99.95  | 146    | 114.95 | 35     | 127.95 | 1764   |
| 87.90 | 92     | 100.90 | 803    | 115.85 | 34     | 129.00 | 9553   |
| 90.90 | 405    | 102.85 | 306    | 116.95 | 5577   | 129.95 | 892    |
| 92.00 | 417    | 103.90 | 598    | 117.95 | 372    | 130.85 | 185    |
| 92.90 | 2888   | 104.95 | 528    | 118.75 | 41     | 131.90 | 67     |
| 93.85 | 276    | 106.95 | 6031   | 119.90 | 83     | 132.10 | 68     |
| 94.90 | 55     | 107.95 | 940    | 121.90 | 494    | 133.95 | 243    |
| 95.80 | 57     | 109.95 | 11572  | 122.90 | 754    | 134.90 | 662    |
| 96.00 | 78     | 110.95 | 1890   | 123.90 | 348    | 135.90 | 267    |
| 97.90 | 2184   | 111.90 | 267    | 124.95 | 292    | 136.95 | 380    |
| 98.90 | 1645   | 112.75 | 59     | 127.00 | 20860  | 137.80 | 45     |

Average of 17.260 to 17.282 min.: 0602F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 138.00 | 49     | 148.95 | 190    | 159.85 | 353    | 169.90 | 62     |
| 139.00 | 44     | 150.05 | 40     | 160.95 | 466    | 170.60 | 33     |
| 140.00 | 54     | 151.05 | 195    | 161.65 | 46     | 170.90 | 65     |
| 140.90 | 1177   | 151.80 | 90     | 161.95 | 86     | 171.95 | 223    |
| 141.90 | 382    | 152.95 | 394    | 162.95 | 34     | 172.95 | 238    |
| 142.90 | 302    | 153.90 | 282    | 163.95 | 62     | 173.95 | 441    |
| 143.90 | 52     | 154.95 | 616    | 164.85 | 490    | 174.20 | 40     |
| 144.80 | 61     | 155.95 | 915    | 165.90 | 401    | 174.95 | 846    |
| 145.85 | 216    | 157.00 | 159    | 166.85 | 1983   | 175.90 | 234    |
| 146.95 | 591    | 157.95 | 219    | 167.90 | 899    | 176.85 | 423    |
| 147.95 | 1343   | 158.85 | 151    | 168.90 | 191    | 178.85 | 1611   |

Average of 17.260 to 17.282 min.: 0602F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 179.95 | 1018   | 190.95 | 176    | 204.95 | 2415   | 221.50 | 52     |
| 180.90 | 509    | 191.95 | 493    | 205.95 | 9632   | 222.90 | 233    |
| 181.80 | 64     | 192.90 | 530    | 206.95 | 1258   | 224.00 | 5276   |
| 182.10 | 39     | 194.00 | 117    | 207.80 | 354    | 224.90 | 1319   |
| 183.85 | 167    | 195.95 | 1131   | 208.75 | 74     | 226.90 | 2606   |
| 184.95 | 728    | 197.85 | 43221  | 209.95 | 164    | 227.85 | 407    |
| 185.90 | 5399   | 198.85 | 2948   | 210.85 | 462    | 228.85 | 497    |
| 186.90 | 1487   | 199.90 | 240    | 215.00 | 130    | 230.00 | 46     |
| 187.90 | 149    | 201.50 | 165    | 216.90 | 3015   | 230.80 | 181    |
| 188.90 | 379    | 202.90 | 327    | 217.90 | 348    | 233.85 | 149    |
| 189.60 | 50     | 203.95 | 1540   | 220.95 | 1626   | 234.85 | 171    |

Handwritten notes: LUB, 6-4-10



50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 235.85 | 92     | 246.90 | 150    | 264.90 | 553    | 283.95 | 56     |
| 236.90 | 159    | 247.75 | 43     | 265.75 | 112    | 284.90 | 133    |
| 238.85 | 72     | 248.90 | 143    | 270.80 | 38     | 288.95 | 33     |
| 239.95 | 50     | 250.75 | 34     | 272.90 | 622    | 292.85 | 170    |
| 240.45 | 34     | 255.00 | 20460  | 273.90 | 1807   | 293.95 | 39     |
| 240.85 | 101    | 255.95 | 3002   | 274.90 | 9252   | 295.85 | 2684   |
| 241.90 | 329    | 256.90 | 65     | 275.90 | 1273   | 296.85 | 402    |
| 242.95 | 128    | 257.90 | 1280   | 276.85 | 816    | 300.90 | 33     |
| 243.95 | 4001   | 258.95 | 196    | 277.90 | 141    | 302.00 | 38     |
| 244.95 | 620    | 260.90 | 37     | 278.85 | 38     | 302.90 | 332    |
| 245.90 | 874    | 263.70 | 47     | 282.95 | 61     | 303.90 | 58     |

Average of 17.260 to 17.282 min.: 0602F001.D

50PPM DFTPP SVM32-14A

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 307.90 | 34     | 333.95 | 574    | 371.05 | 33     | 441.00 | 3292   |
| 309.90 | 37     | 334.95 | 105    | 371.95 | 456    | 441.90 | 21307  |
| 313.90 | 86     | 340.90 | 58     | 372.95 | 64     | 442.95 | 4101   |
| 314.80 | 297    | 341.90 | 34     | 382.85 | 74     | 443.90 | 369    |
| 315.85 | 186    | 345.80 | 139    | 401.90 | 109    |        |        |
| 320.95 | 68     | 346.00 | 42     | 402.90 | 187    |        |        |
| 322.95 | 807    | 351.90 | 241    | 403.80 | 50     |        |        |
| 323.95 | 86     | 352.90 | 153    | 420.85 | 162    |        |        |
| 326.80 | 136    | 354.00 | 267    | 421.95 | 121    |        |        |
| 327.85 | 59     | 364.95 | 1168   | 422.95 | 1264   |        |        |
| 331.85 | 41     | 365.95 | 116    | 423.85 | 245    |        |        |

LB  
4/4/10

6-10

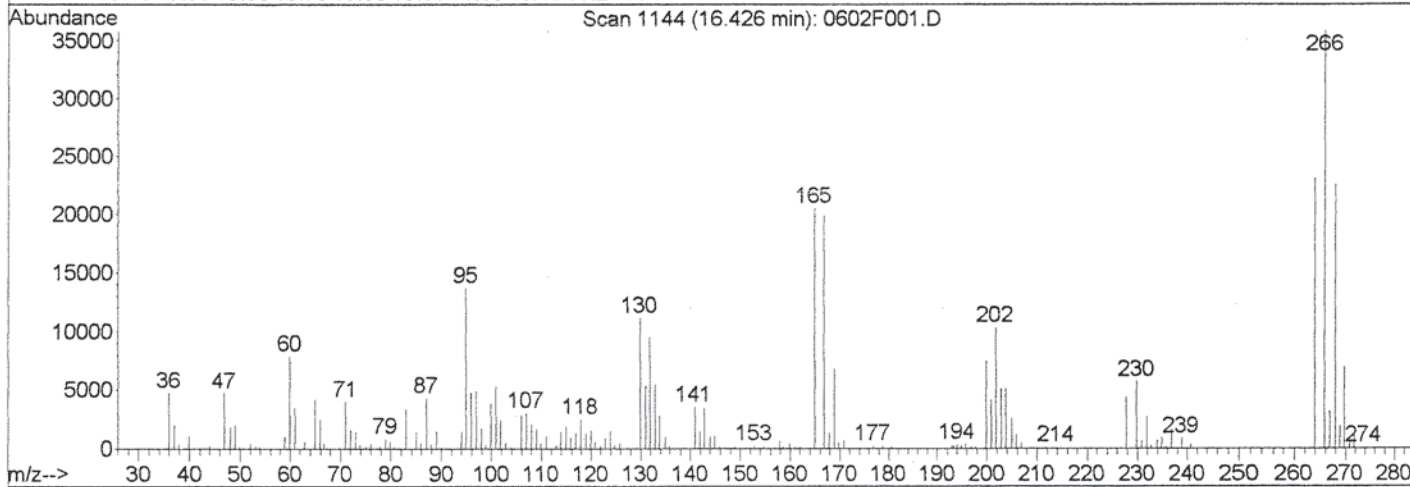
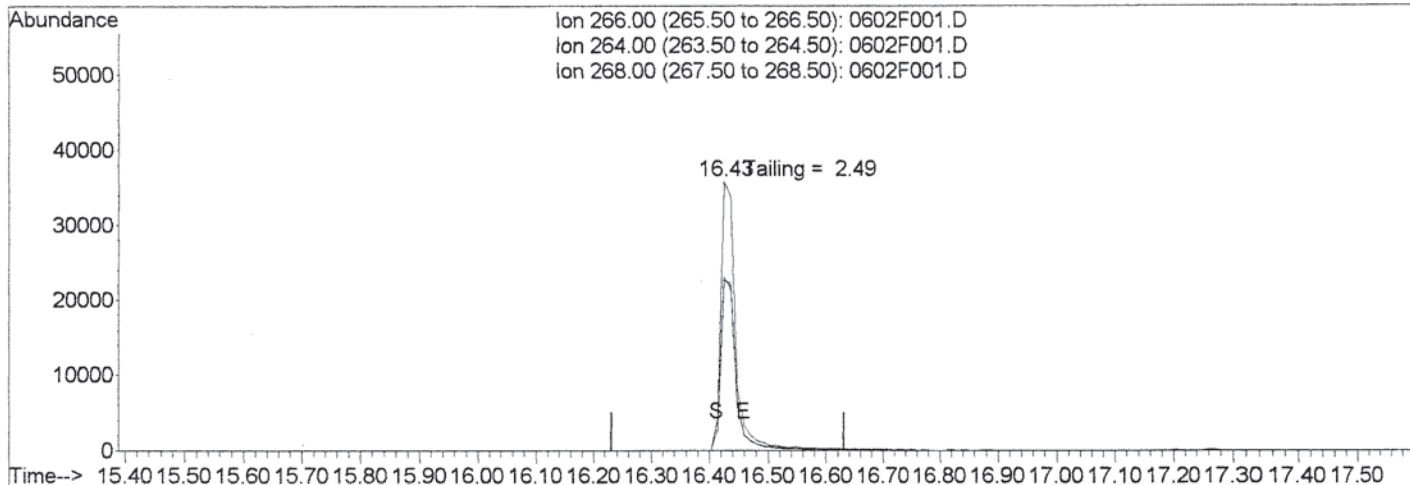
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F001.D  
Acq On : 2 Jun 2010 2:14 pm  
Sample : 50PPM DFTPP SVM32-14A  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:47 2010

Vial: 1  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 09:52:06 2010  
Response via : Single Level Calibration



TIC: 0602F001.D

(62) Pentachlorophenol (TMC)

16.43min 6845.95ug/ml

response 63309

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 266.00 | 100   | 100   |
| 264.00 | 61.00 | 64.46 |
| 268.00 | 63.90 | 63.03 |
| 0.00   | 0.00  | 0.00  |

*Handwritten notes:* L6, 14/10

*Handwritten:* M 6-2-10



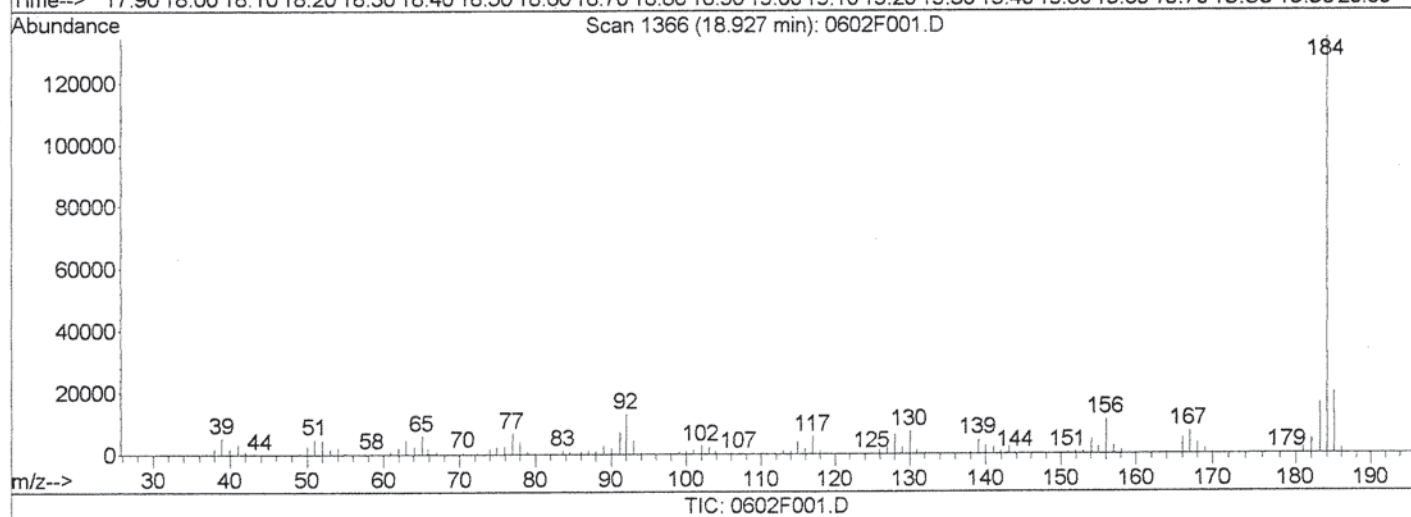
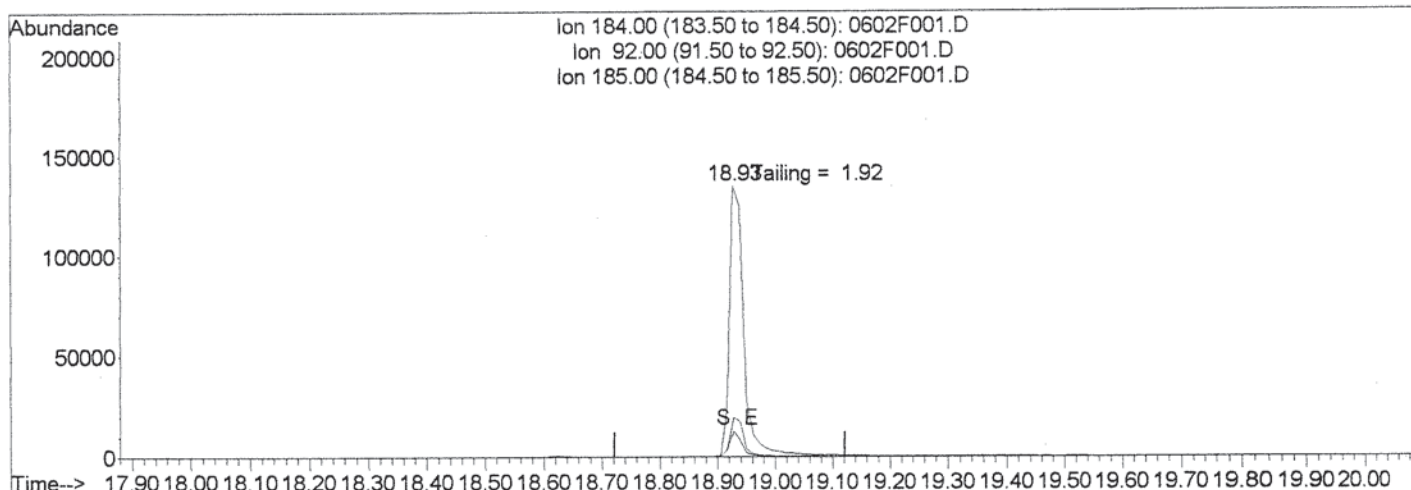
Data File : J:\MS07\DATA\060210\0602F001.D  
Acq On : 2 Jun 2010 2:14 pm  
Sample : 50PPM DFTPP SVM32-14A  
Misc :

Vial: 1  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:47 2010

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 09:52:06 2010  
Response via : Single Level Calibration



(69) Benzidine (T)

18.93min 16523.54ug/ml

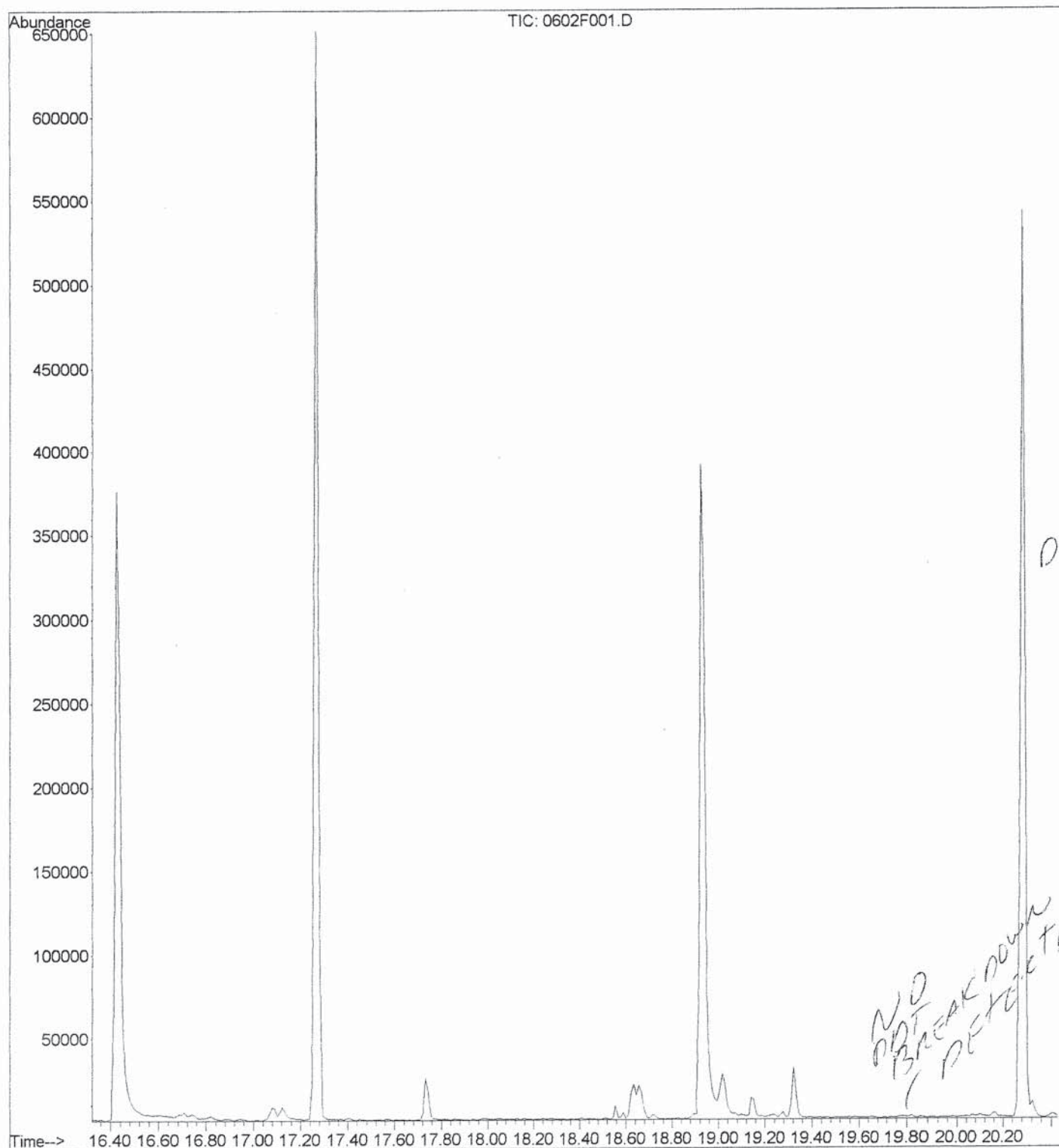
response 237944

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 184.00 | 100   | 100   |
| 92.00  | 9.90  | 9.49  |
| 185.00 | 14.60 | 14.71 |
| 0.00   | 0.00  | 0.00  |

*LB*  
*11/10*

*M*  
*6-3-10*

File : J:\MS07\DATA\060210\0602F001.D  
Operator : M.BUTCHER  
Acquired : 2 Jun 2010 2:14 pm using AcqMethod 8270\_1  
Instrument : MS07  
Sample Name: 50PPM DFTPP SVM32-14A  
Misc Info :  
Vial Number: 1



NO  
DDT  
BREAKDOWN  
/ DETECTED

1343

LAB  
6/14/10

M  
6-3-10



Data File : J:\MS07\DATA\060210\0602F003.D  
 Acq On : 2 Jun 2010 4:38 pm  
 Sample : IB  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:47 2010

Vial: 1  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 09:52:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.36  | 152  | 320704   | 40.00 | ug/ml | 0.02     |
| 21) Naphthalene-d8        | 11.46 | 136  | 1084699  | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.32 | 164  | 601819   | 40.00 | ug/ml | 0.02     |
| 58) Phenanthrene-d10      | 16.72 | 188  | 1100123  | 40.00 | ug/ml | 0.02     |
| 68) Chrysene-d12          | 21.15 | 240  | 803978   | 40.00 | ug/ml | 0.02     |
| 77) Perylene-d12          | 24.35 | 264  | 792779   | 40.00 | ug/ml | 0.04     |

System Monitoring Compounds

|                          |         |                |          |      |        |      |
|--------------------------|---------|----------------|----------|------|--------|------|
| 4) 2-Fluorophenol        | 0.00    | 112            | 0        | 0.00 | ug/ml  |      |
| Spiked Amount            | 150.000 | Range 21 - 100 | Recovery | =    | 0.00%# |      |
| 7) Phenol-d6             | 0.00    | 99             | 0        | 0.00 | ug/ml  |      |
| Spiked Amount            | 150.000 | Range 10 - 94  | Recovery | =    | 0.00%# |      |
| 19) Nitrobenzene-d5      | 0.00    | 82             | 0        | 0.00 | ug/ml  |      |
| Spiked Amount            | 100.000 | Range 35 - 114 | Recovery | =    | 0.00%# |      |
| 38) 2-Fluorobiphenyl     | 0.00    | 172            | 0d       | 0.00 | ug/ml  |      |
| Spiked Amount            | 100.000 | Range 43 - 116 | Recovery | =    | 0.00%# |      |
| 59) 2,4,6-Tribromophenol | 0.00    | 330            | 0        | 0.00 | ug/ml  |      |
| Spiked Amount            | 150.000 | Range 10 - 123 | Recovery | =    | 0.00%# |      |
| 71) Terphenyl-d14        | 19.32   | 244            | 1959     | 0.16 | ug/ml  | 0.00 |
| Spiked Amount            | 100.000 | Range 33 - 141 | Recovery | =    | 0.16%# |      |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 53) Diethyl Phthalate          | 15.07 | 149  | 1944m    | 0.10 | ug/ml |        |
| 63) Phenanthrene               | 16.75 | 178  | 948m     | 0.03 | ug/ml |        |
| 64) Anthracene                 | 16.83 | 178  | 970      | 0.03 | ug/ml | 76     |
| 65) Carbazole                  | 17.14 | 167  | 1388     | 0.06 | ug/ml | 91     |
| 66) Di-n-butyl Phthalate       | 17.73 | 149  | 4084m    | 0.12 | ug/ml |        |
| 67) Fluoranthene               | 18.67 | 202  | 2380     | 0.09 | ug/ml | 96     |
| 70) Pyrene                     | 19.03 | 202  | 2470     | 0.12 | ug/ml | 97     |
| 74) Benz(a)anthracene          | 21.15 | 228  | 2323m    | 0.12 | ug/ml |        |
| 75) Chrysene                   | 21.18 | 228  | 622      | 0.03 | ug/ml | 61     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.32 | 149  | 1766     | 0.10 | ug/ml | 94     |

LB  
 6-3-10

(#) = qualifier out of range (m) = manual integration  
 0602F003.D 0602BNC7.M Thu Jun 03 11:34:24 2010

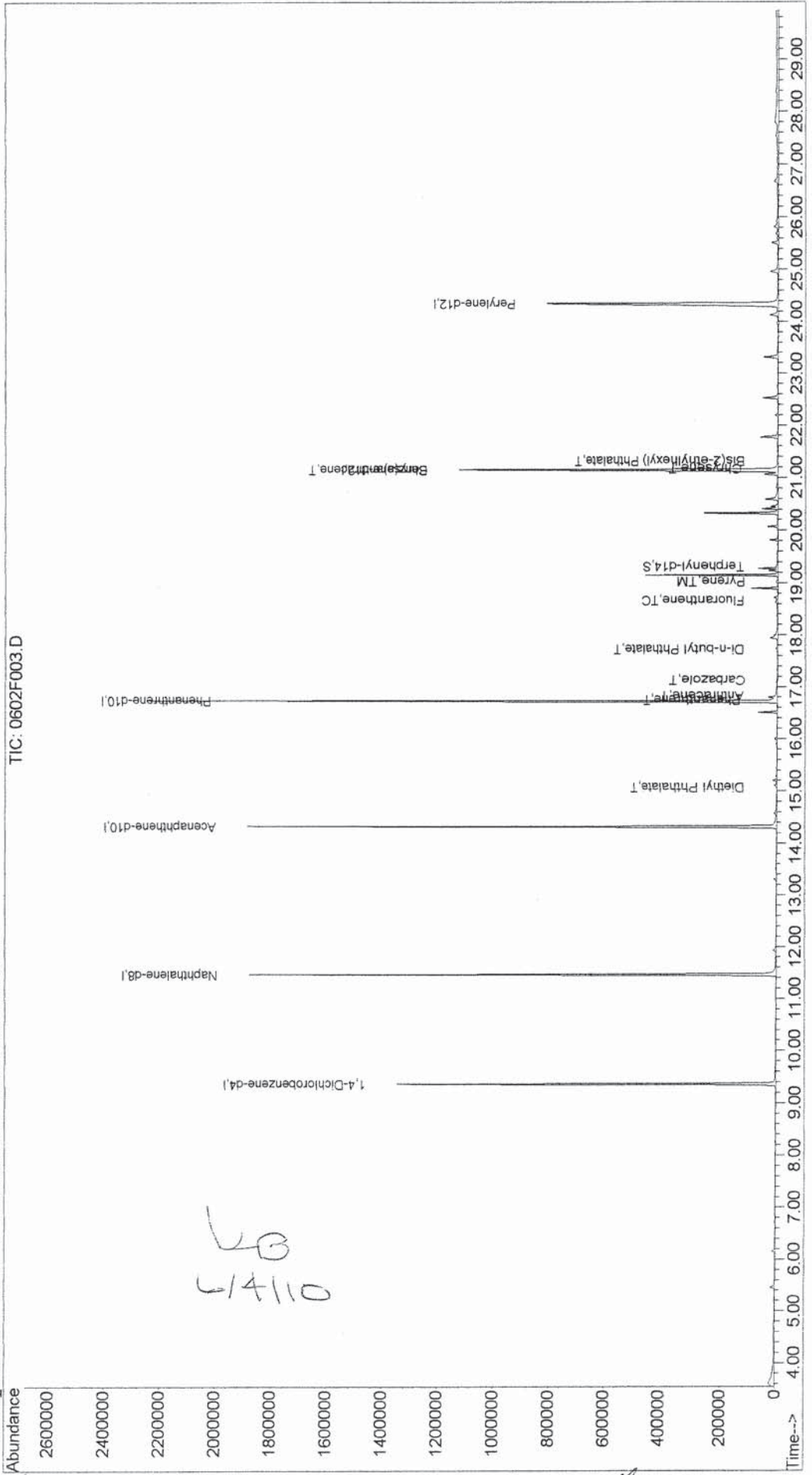
6-3-10

Data File : J:\MS07\DATA\060210\0602F003.D  
Acq On : 2 Jun 2010 4:38 pm  
Sample : IB  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:51 2010

Vial: 1  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



1345

M  
6-3-10



Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:49 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 105915   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 378911   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 222578   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 388712   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 251721   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.32 | 264  | 274311   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |                |     |            |        |       |       |
|--------------------------|----------------|-----|------------|--------|-------|-------|
| 4) 2-Fluorophenol        | 7.16           | 112 | 11882      | 4.22   | ug/ml | 0.02  |
| Spiked Amount 150.000    | Range 21 - 100 |     | Recovery = | 2.81%# |       |       |
| 7) Phenol-d6             | 8.88           | 99  | 16464      | 4.19   | ug/ml | 0.00  |
| Spiked Amount 150.000    | Range 10 - 94  |     | Recovery = | 2.79%# |       |       |
| 19) Nitrobenzene-d5      | 10.28          | 82  | 15159      | 3.95   | ug/ml | -0.01 |
| Spiked Amount 100.000    | Range 35 - 114 |     | Recovery = | 3.95%# |       |       |
| 38) 2-Fluorobiphenyl     | 13.24          | 172 | 33732      | 4.62   | ug/ml | 0.00  |
| Spiked Amount 100.000    | Range 43 - 116 |     | Recovery = | 4.62%# |       |       |
| 59) 2,4,6-Tribromophenol | 15.60          | 330 | 6253       | 3.97   | ug/ml | 0.00  |
| Spiked Amount 150.000    | Range 10 - 123 |     | Recovery = | 2.65%# |       |       |
| 71) Terphenyl-d14        | 19.32          | 244 | 24013      | 6.23   | ug/ml | -0.01 |
| Spiked Amount 100.000    | Range 33 - 141 |     | Recovery = | 6.23%# |       |       |

Target Compounds

|                                |       |     |        |      |       | Qvalue |
|--------------------------------|-------|-----|--------|------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.23  | 42  | 11593m | 4.60 | ug/ml |        |
| 3) Pyridine                    | 4.37  | 79  | 15161m | 4.24 | ug/ml |        |
| 5) Aniline                     | 8.81  | 93  | 19993  | 5.04 | ug/ml | 88     |
| 6) Bis(2-chloroethyl) Ether    | 8.95  | 93  | 13655m | 4.22 | ug/ml |        |
| 8) Phenol                      | 8.90  | 94  | 15799m | 3.93 | ug/ml |        |
| 9) 2-Chlorophenol              | 9.03  | 128 | 15360  | 4.43 | ug/ml | 90     |
| 10) 1,3-Dichlorobenzene        | 9.24  | 146 | 17630  | 4.79 | ug/ml | 96     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146 | 18099  | 4.83 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146 | 16923  | 4.77 | ug/ml | 98     |
| 13) Benzyl Alcohol             | 9.64  | 108 | 8446   | 3.97 | ug/ml | 94     |
| 14) Bis(2-chloroisopropyl) Eth | 9.86  | 45  | 23961  | 4.51 | ug/ml | 91     |
| 15) 2-Methylphenol             | 9.88  | 107 | 12993  | 4.99 | ug/ml | 85     |
| 16) Hexachloroethane           | 10.18 | 117 | 7664   | 4.50 | ug/ml | 96     |
| 17) N-Nitrosodi-n-propylamine  | 10.06 | 70  | 11468m | 4.33 | ug/ml |        |
| 18) 4-Methylphenol             | 10.14 | 107 | 18174  | 4.60 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.31 | 77  | 15225  | 4.29 | ug/ml | 95     |
| 22) Isophorone                 | 10.72 | 82  | 33686  | 4.93 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.84 | 139 | 8608   | 4.52 | ug/ml | 95     |
| 24) 2,4-Dimethylphenol         | 10.99 | 122 | 12495  | 4.96 | ug/ml | 95     |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93  | 18497  | 4.82 | ug/ml | 99     |

(#) = qualifier out of range (m) = manual integration  
 0602F004.D 0602BNC7.M Thu Jun 03 11:34:25 2010

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :

Vial: 2  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:49 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc | Unit  | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 26) 2,4-Dichlorophenol         | 11.29 | 162  | 12917    | 4.52 | ug/ml | 99     |
| 27) Benzoic Acid               | 11.16 | 122  | 6190     | 2.87 | ug/ml | 93     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 15069    | 4.97 | ug/ml | 94     |
| 29) Naphthalene                | 11.48 | 128  | 46687    | 5.14 | ug/ml | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 20515    | 5.12 | ug/ml | 98     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 9544     | 4.96 | ug/ml | 96     |
| 32) 4-Chloro-3-methylphenol    | 12.48 | 107  | 15122    | 5.07 | ug/ml | 95     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 29645    | 5.12 | ug/ml | 99     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 3783     | 9.45 | ug/ml | 92     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 10389    | 4.52 | ug/ml | 97     |
| 37) 2,4,5-Trichlorophenol      | 13.21 | 196  | 11627    | 4.54 | ug/ml | 96     |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 31360    | 4.87 | ug/ml | 97     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 9229     | 4.46 | ug/ml | 96     |
| 41) Acenaphthylene             | 14.08 | 152  | 48218    | 4.86 | ug/ml | 98     |
| 42) Dimethyl Phthalate         | 13.93 | 163  | 41398    | 5.47 | ug/ml | 97     |
| 43) 2,6-Dinitrotoluene         | 14.01 | 165  | 8804     | 5.13 | ug/ml | 88     |
| 44) Acenaphthene               | 14.36 | 154  | 30613    | 5.41 | ug/ml | 99     |
| 45) 3-Nitroaniline             | 14.29 | 138  | 8692     | 4.82 | ug/ml | 90     |
| 46) 2,4-Dinitrophenol          | 14.47 | 184  | 1335     | 1.34 | ug/ml | 68     |
| 47) Dibenzofuran               | 14.64 | 168  | 45031    | 5.05 | ug/ml | 91     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 12303    | 5.66 | ug/ml | 95     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.88 | 232  | 8704     | 4.67 | ug/ml | 95     |
| 51) Fluorene                   | 15.19 | 166  | 37252    | 5.57 | ug/ml | 95     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 18167    | 5.31 | ug/ml | 98     |
| 53) Diethyl Phthalate          | 15.08 | 149  | 47922    | 6.55 | ug/ml | 99     |
| 54) 4-Nitroaniline             | 15.27 | 138  | 7347     | 4.70 | ug/ml | 86     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 4130     | 3.49 | ug/ml | 76     |
| 56) N-Nitrosodiphenylamine     | 15.43 | 169  | 25148    | 5.64 | ug/ml | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 42085    | 5.55 | ug/ml | 96     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 10358    | 4.42 | ug/ml | 94     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 13085    | 4.82 | ug/ml | 90     |
| 62) Pentachlorophenol          | 16.43 | 266  | 3879     | 2.54 | ug/ml | 93     |
| 63) Phenanthrene               | 16.75 | 178  | 55741    | 5.40 | ug/ml | 99     |
| 64) Anthracene                 | 16.83 | 178  | 55696    | 5.13 | ug/ml | 99     |
| 65) Carbazole                  | 17.12 | 167  | 44064    | 4.97 | ug/ml | 98     |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 61417    | 5.19 | ug/ml | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 46359    | 4.94 | ug/ml | 97     |
| 69) Benzidine                  | 18.93 | 184  | 16327    | 7.72 | ug/ml | 98     |
| 70) Pyrene                     | 19.02 | 202  | 46594    | 6.93 | ug/ml | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 18281    | 4.77 | ug/ml | 97     |
| 73) 3,3'-Dichlorobenzidine     | 21.11 | 252  | 12698    | 4.83 | ug/ml | 96     |

(#) = qualifier out of range (m) = manual integration  
 0602F004.D 0602BNC7.M Thu Jun 03 11:34:25 2010

LAB  
 LIARO

6-3-10



Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:49 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc | Unit  | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 74) Benz(a)anthracene          | 21.11 | 228  | 30630    | 5.18 | ug/ml | 99     |
| 75) Chrysene                   | 21.18 | 228  | 31713    | 5.54 | ug/ml | 98     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 26007    | 4.77 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.76 | 149  | 47537    | 3.93 | ug/ml | 98     |
| 79) Benzo(b)fluoranthene       | 23.43 | 252  | 29572    | 4.18 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.50 | 252  | 32277    | 4.40 | ug/ml | 100    |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 27782    | 4.73 | ug/ml | 98     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.74 | 276  | 24221    | 4.77 | ug/ml | 98     |
| 83) Dibenz(a,h)anthracene      | 26.82 | 278  | 25997    | 4.80 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.32 | 276  | 28084    | 5.12 | ug/ml | 96     |

LB  
 6/4/10

(#) = qualifier out of range (m) = manual integration  
 0602F004.D 0602BNC7.M Thu Jun 03 11:34:25 2010

M  
 6-7-10





Data File : J:\MS07\DATA\060210\0602F004.D

Vial: 2

Acq On : 2 Jun 2010 5:18 pm

Operator: M.BUTCHER

Sample : 5PPM 8270 ICAL SVM32-21C

Inst : MS07

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 3 10:48 2010

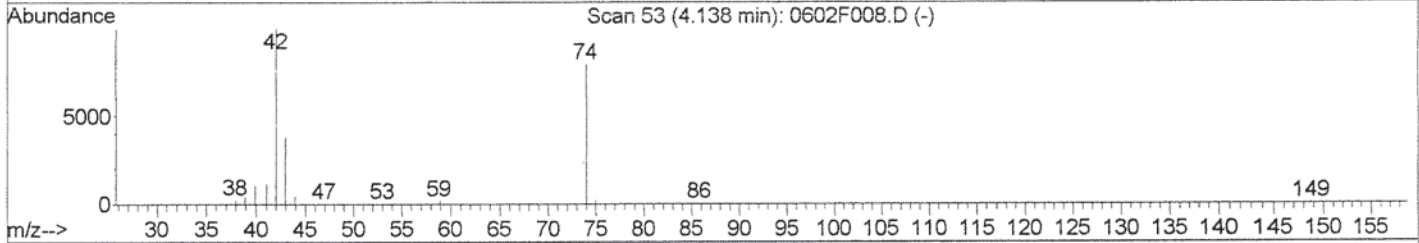
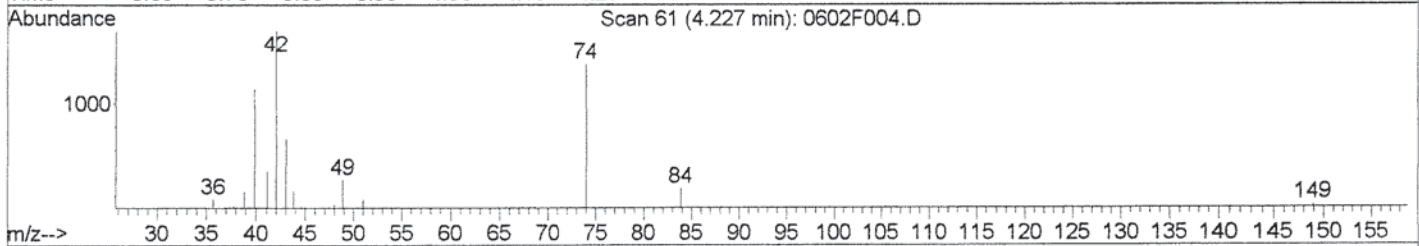
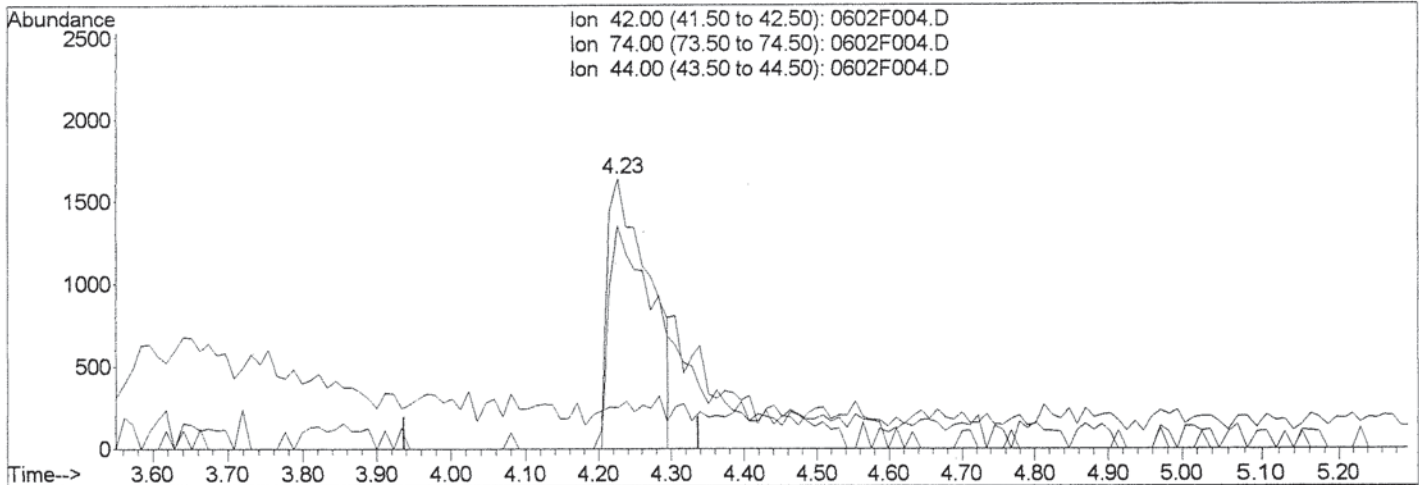
Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)

Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07

Last Update : Thu Jun 03 10:48:31 2010

Response via : Multiple Level Calibration



TIC: 0602F004.D

(2) N-Nitrosodimethylamine (T)

4.23min 2.60ug/ml

response 6565

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 81.14 |
| 44.00 | 4.40  | 7.46  |
| 0.00  | 0.00  | 0.00  |

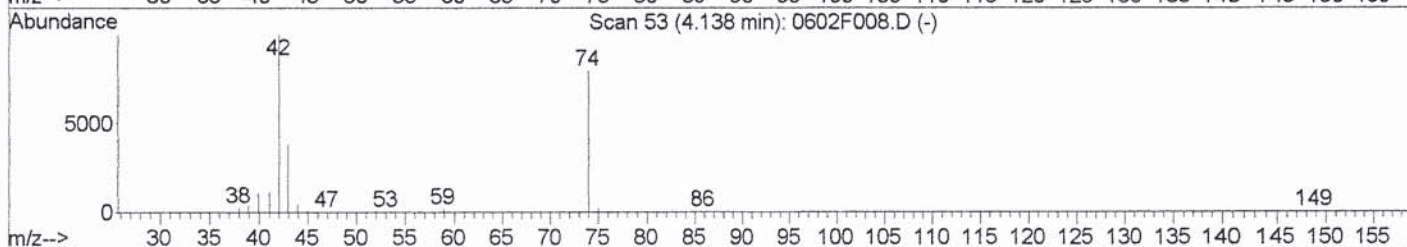
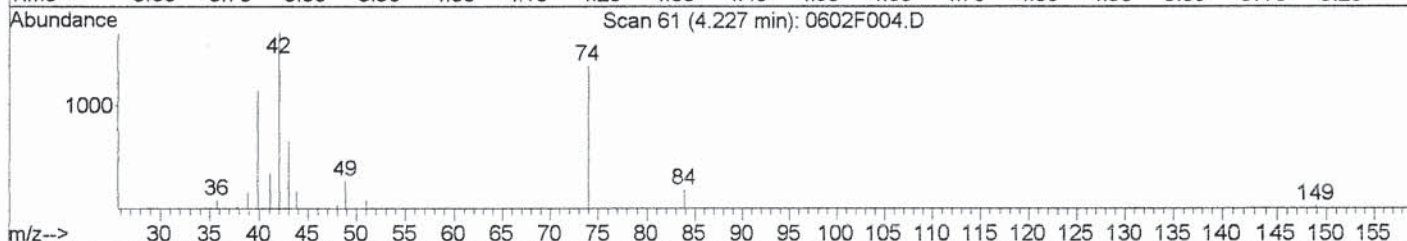
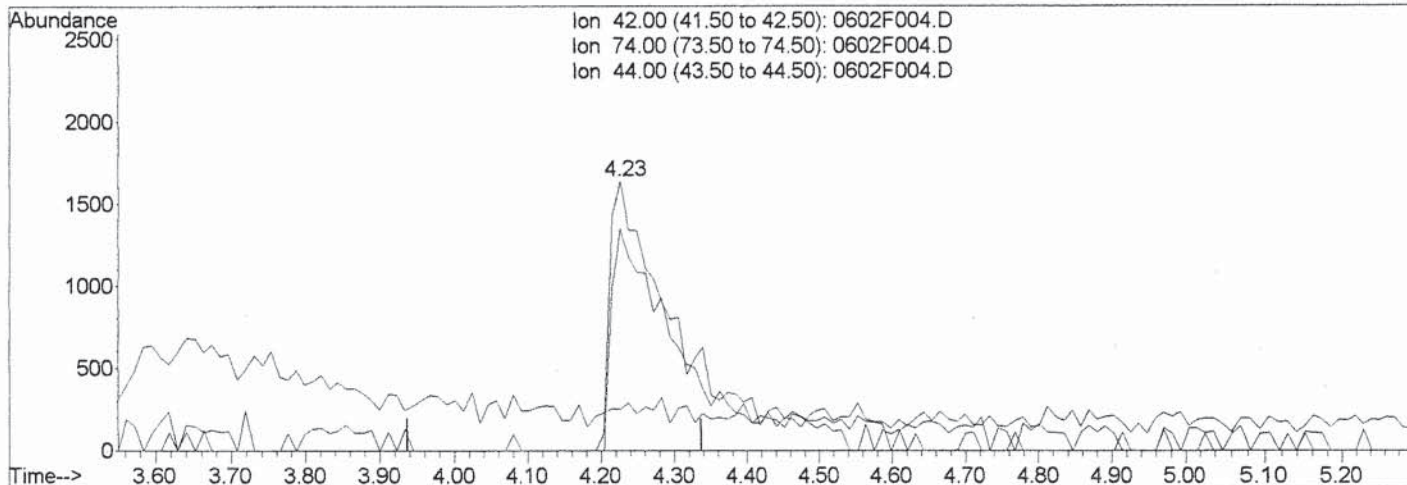
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

(2) N-Nitrosodimethylamine (T)

4.23min 4.60ug/ml m

response 11593

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 82.41 |
| 44.00 | 4.40  | 15.15 |
| 0.00  | 0.00  | 0.00  |

*LC*  
*6-3-10*

*LB*  
*6/4/10*



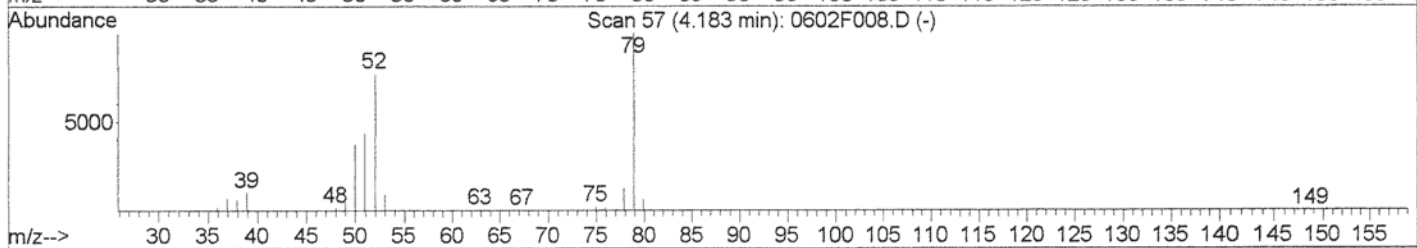
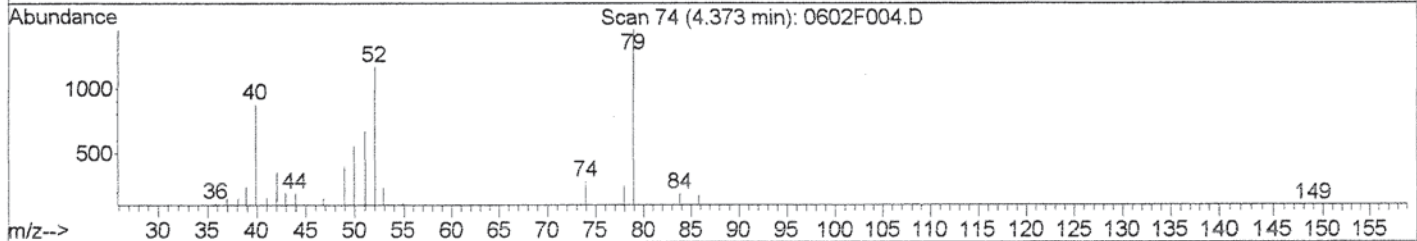
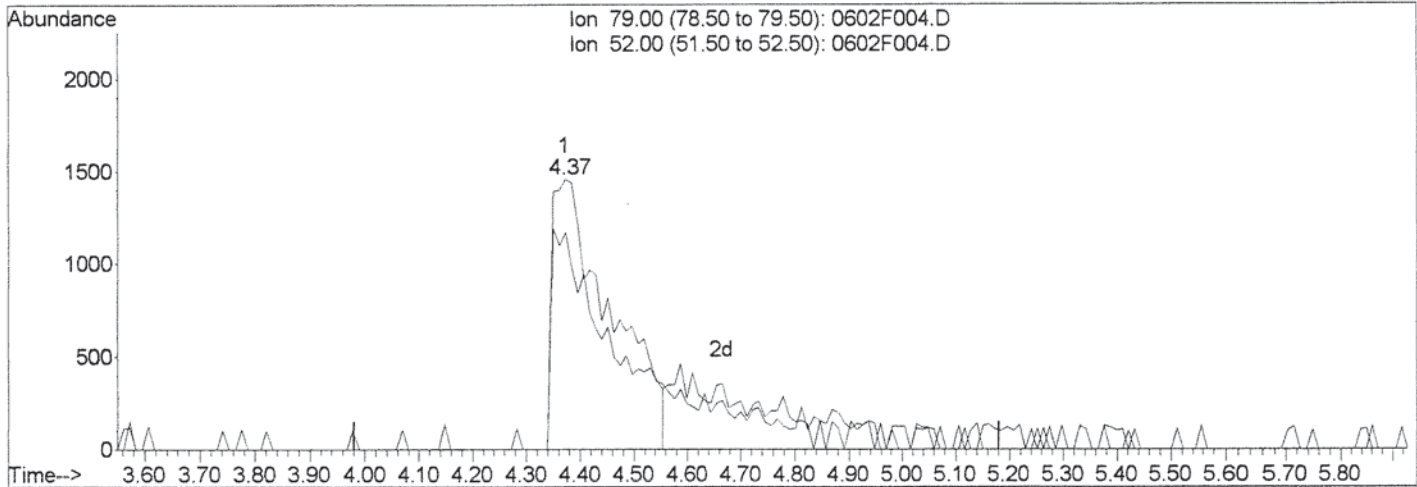
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

(3) Pyridine (T)

4.37min 3.06ug/ml

response 10936

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 76.73 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

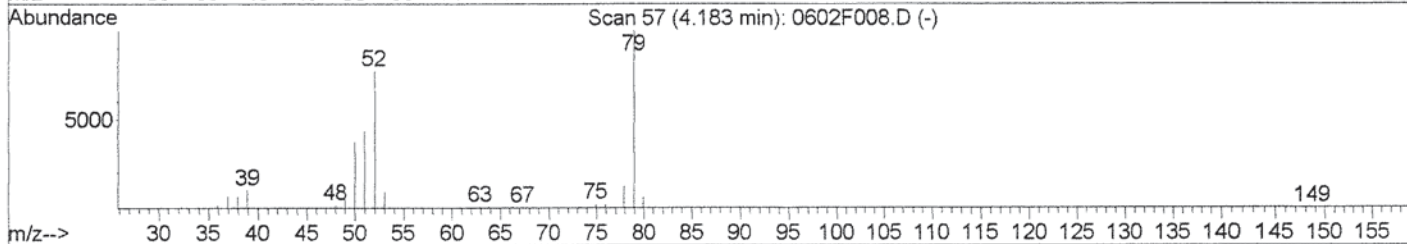
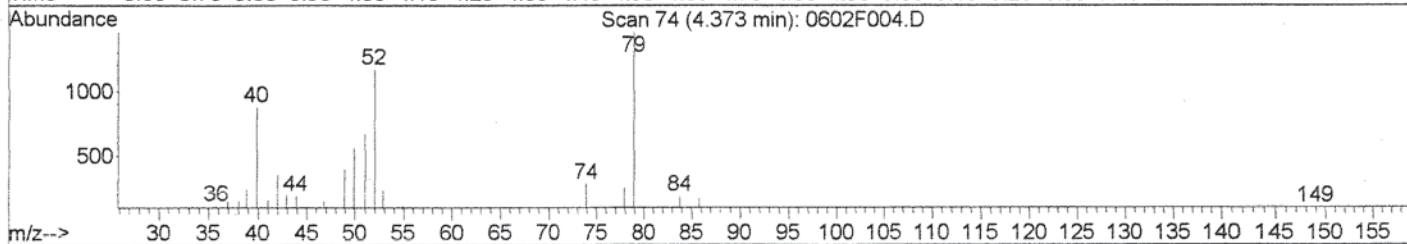
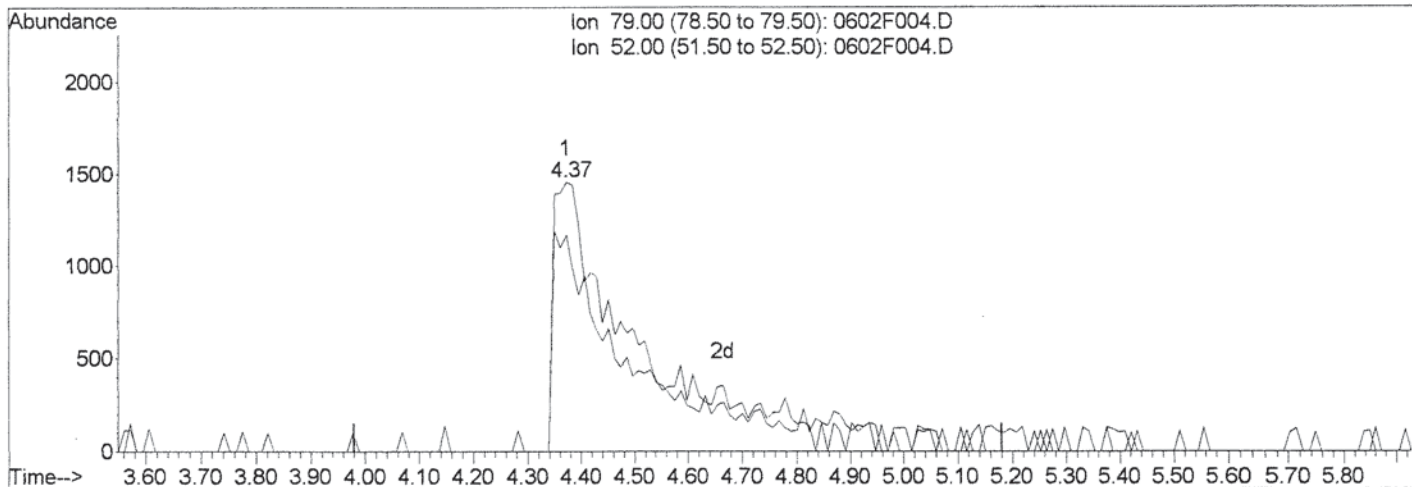
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

(3) Pyridine (T)

4.37min 4.24ug/ml m

response 15161

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 80.30 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-3-10*

*LB*  
*4/11/10*

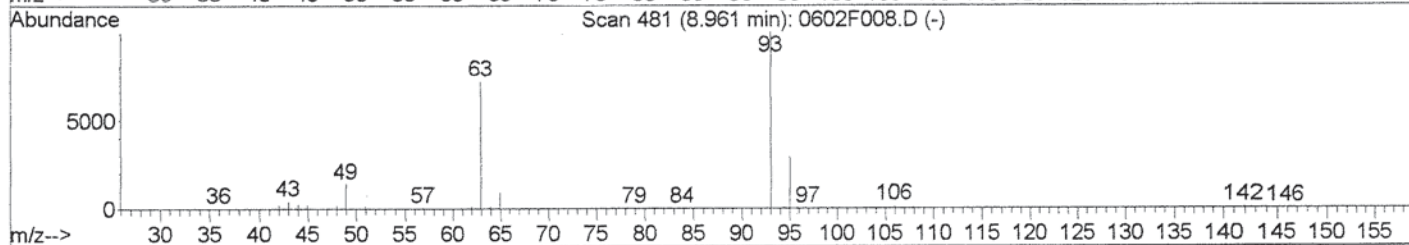
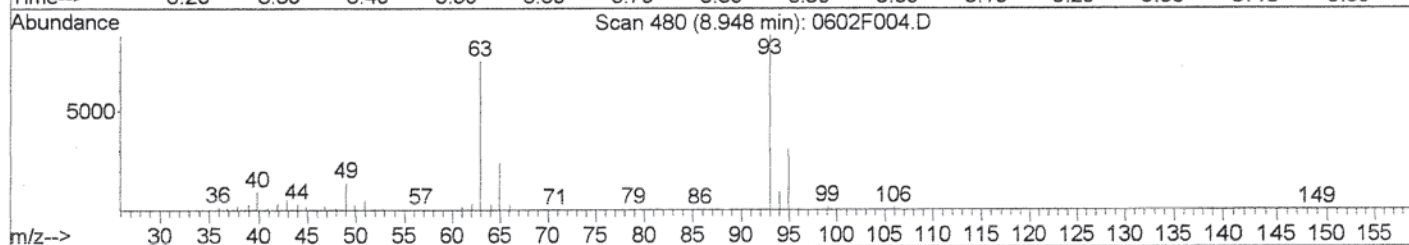
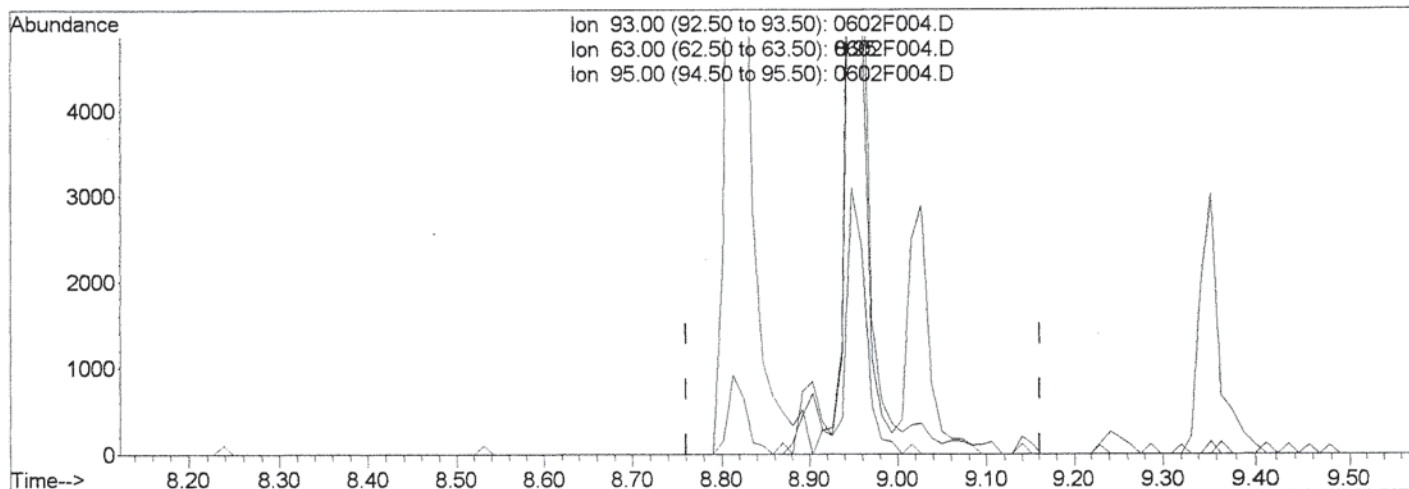


Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

(6) Bis(2-chloroethyl) Ether (T)

8.95min 4.64ug/ml

response 15011

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 93.00 | 100   | 100   |
| 63.00 | 74.40 | 79.60 |
| 95.00 | 31.00 | 31.22 |
| 0.00  | 0.00  | 0.00  |

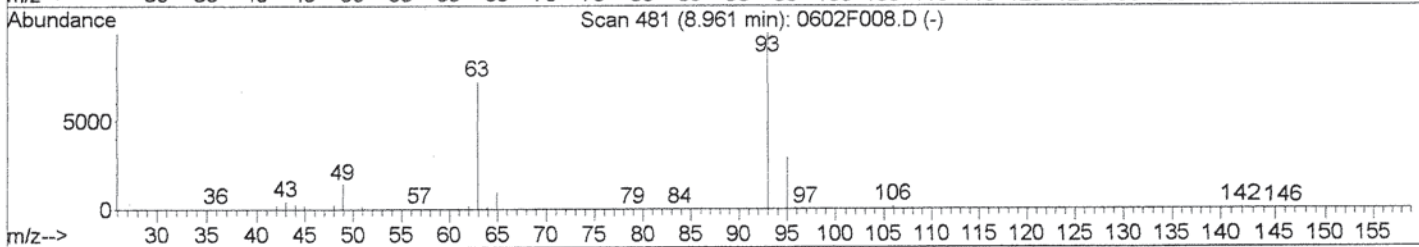
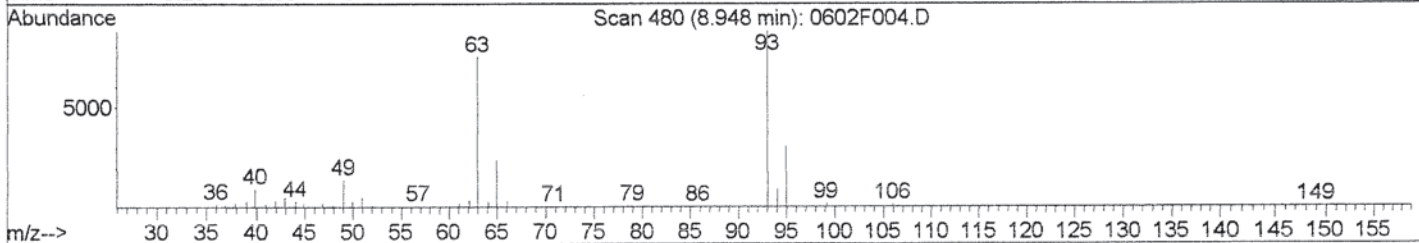
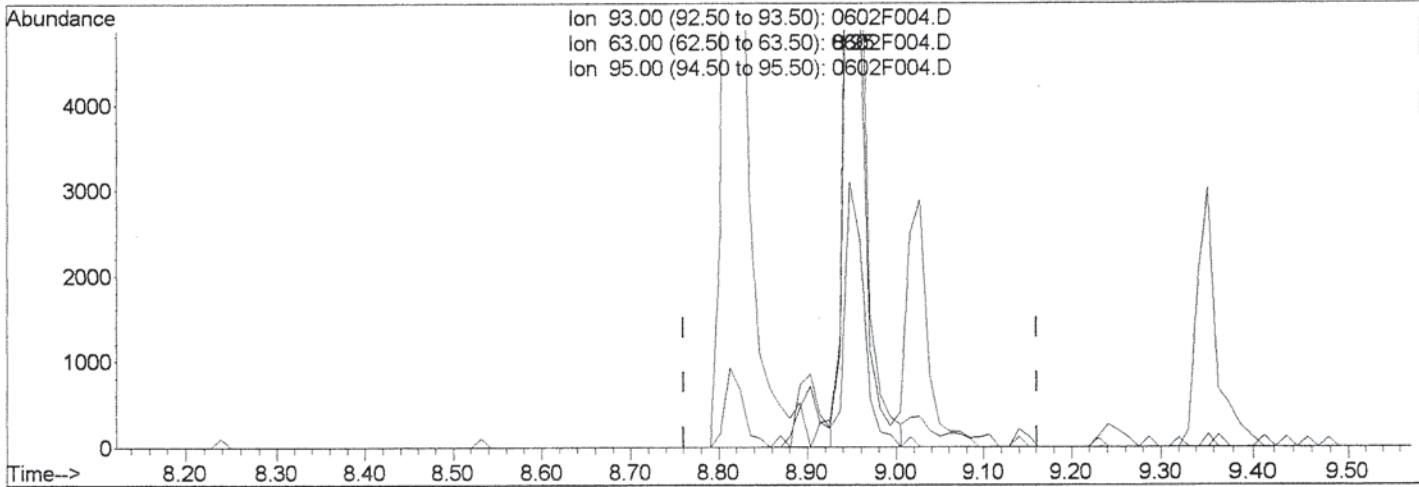
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

| (6) Bis(2-chloroethyl) Ether (T) |             |       |
|----------------------------------|-------------|-------|
| 8.95min                          | 4.22ug/ml m |       |
| response                         | 13655       |       |
| Ion                              | Exp%        | Act%  |
| 93.00                            | 100         | 100   |
| 63.00                            | 74.40       | 85.24 |
| 95.00                            | 31.00       | 35.23 |
| 0.00                             | 0.00        | 0.00  |

*Handwritten notes:* 05  
 6-7-10

*Handwritten signature:* LB  
 6/4/10



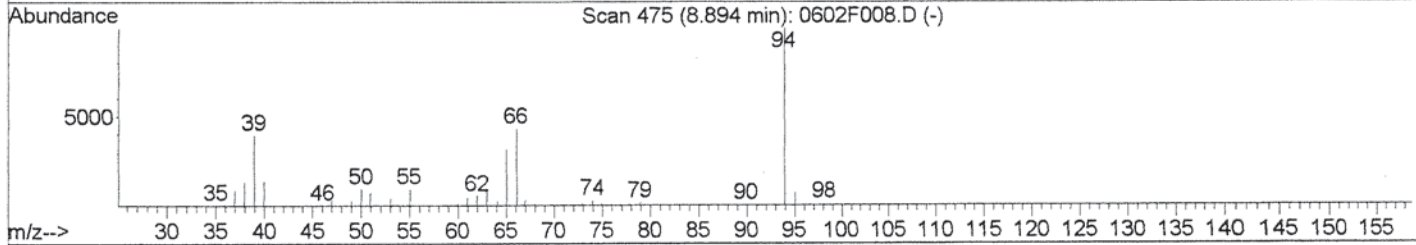
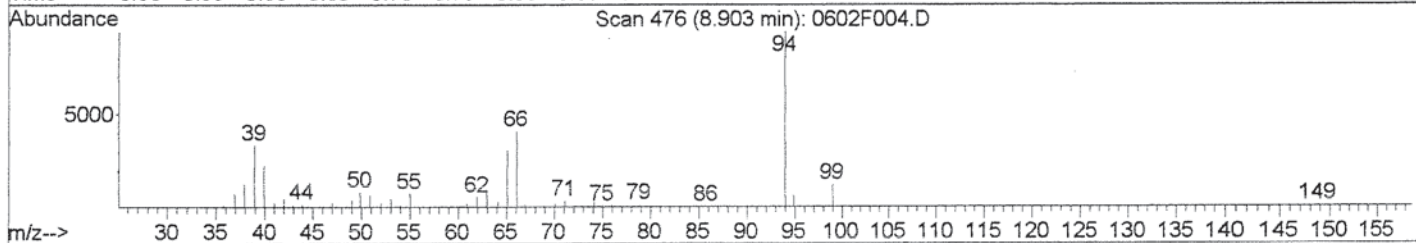
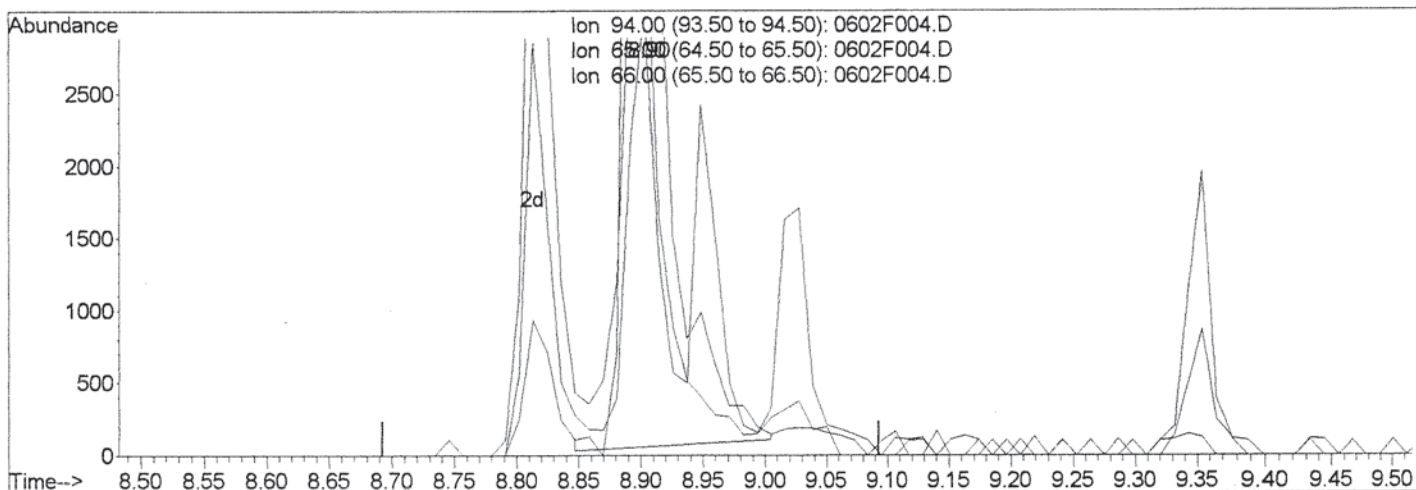
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

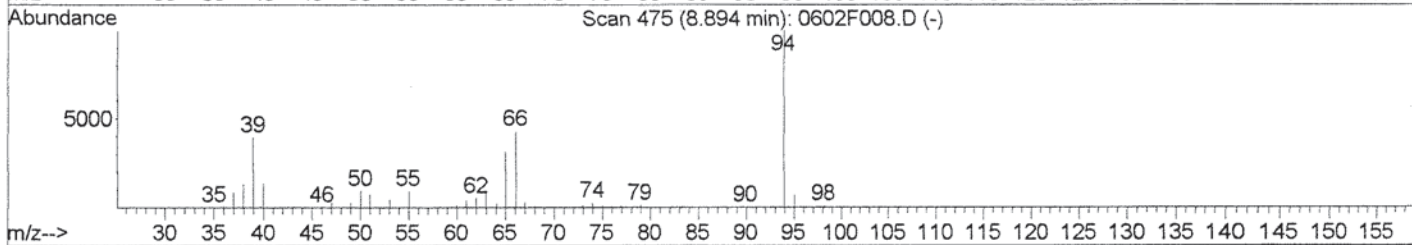
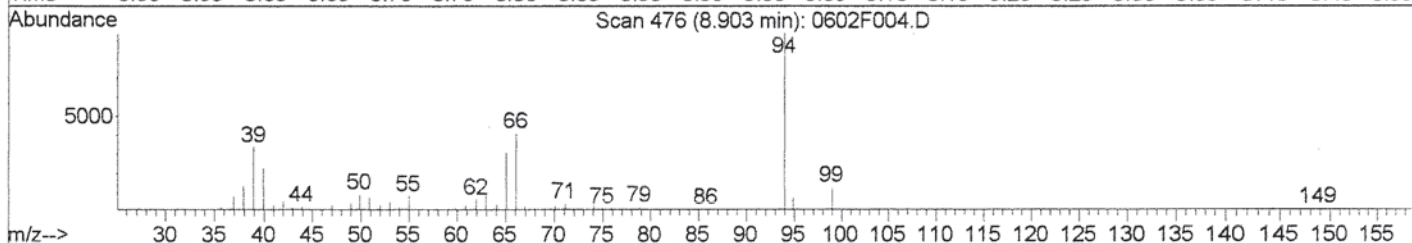
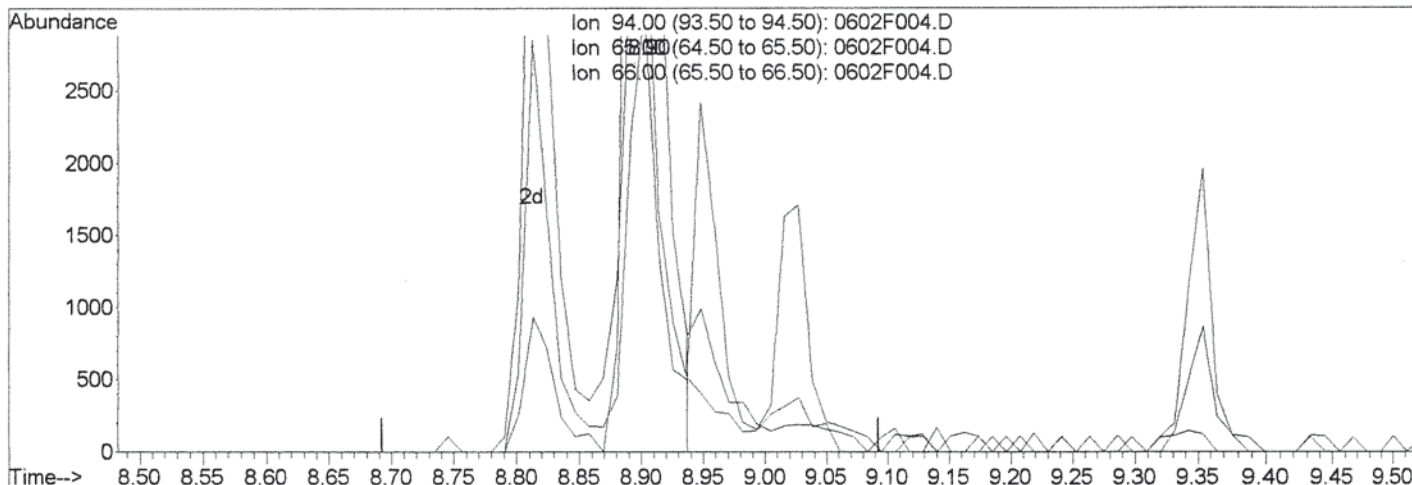
| (8) Phenol (TMC) |           |       |
|------------------|-----------|-------|
| 8.90min          | 4.23ug/ml |       |
| response         | 17008     |       |
| Ion              | Exp%      | Act%  |
| 94.00            | 100       | 100   |
| 65.00            | 31.10     | 30.00 |
| 66.00            | 44.30     | 40.54 |
| 0.00             | 0.00      | 0.00  |

Data File : J:\MS07\DATA\060210\0602F004.D  
 Acq On : 2 Jun 2010 5:18 pm  
 Sample : 5PPM 8270 ICAL SVM32-21C  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:51 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F004.D

| (8) Phenol (TMC) |             |       |
|------------------|-------------|-------|
| 8.90min          | 3.93ug/ml m |       |
| response         | 15799       |       |
| lon              | Exp%        | Act%  |
| 94.00            | 100         | 100   |
| 65.00            | 31.10       | 32.77 |
| 66.00            | 44.30       | 43.67 |
| 0.00             | 0.00        | 0.00  |

*Handwritten notes:* 05, M 6-3-10

*Handwritten:* 43, 4/4/10

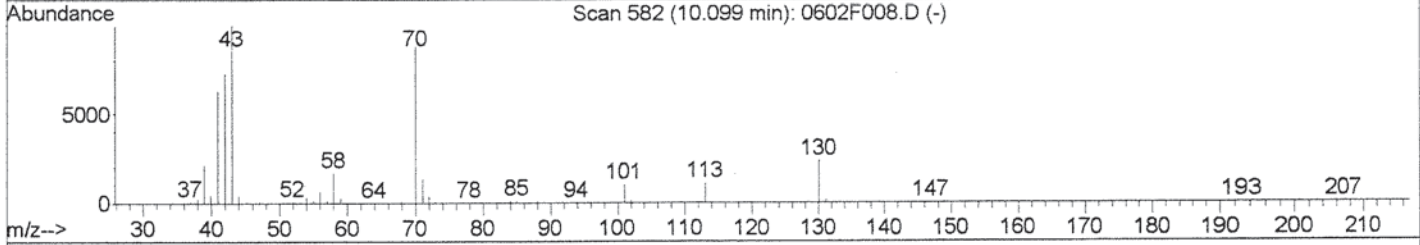
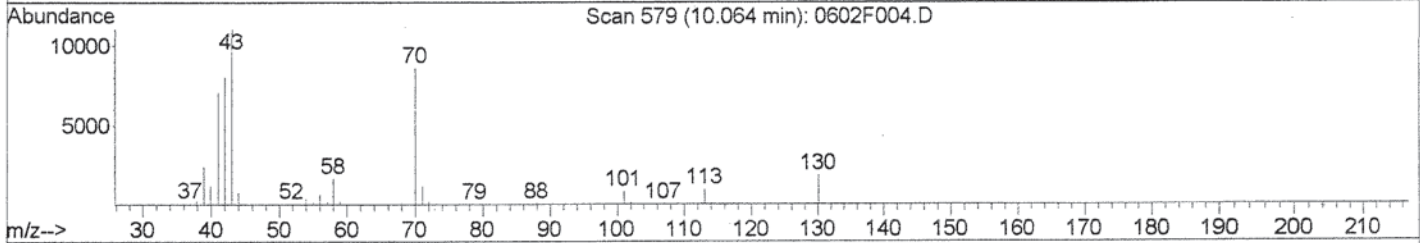
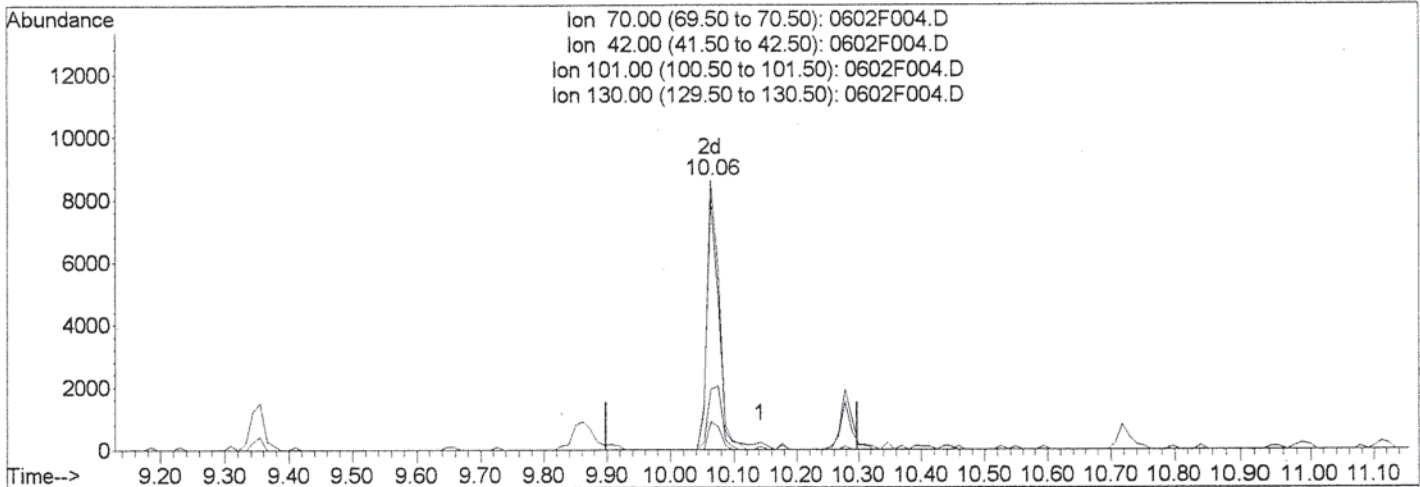


Data File : J:\MS07\DATA\060210\0602F004.D  
Acq On : 2 Jun 2010 5:18 pm  
Sample : 5PPM 8270 ICAL SVM32-21C  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:51 2010

Vial: 2  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Multiple Level Calibration



TIC: 0602F004.D

(17) N-Nitrosodi-n-propylamine (TMP)

10.06min 4.33ug/ml m

response 11468

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 70.00  | 100   | 100   |
| 42.00  | 82.30 | 93.49 |
| 101.00 | 11.70 | 10.47 |
| 130.00 | 26.70 | 22.39 |

*LF*  
*M 8-3-10*

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:50 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 105247   | 40.00 | ug/ml | 0.00      |
| 21) Naphthalene-d8        | 11.45 | 136  | 391642   | 40.00 | ug/ml | 0.00      |
| 34) Acenaphthene-d10      | 14.31 | 164  | 226676   | 40.00 | ug/ml | 0.00      |
| 58) Phenanthrene-d10      | 16.70 | 188  | 357025   | 40.00 | ug/ml | 0.00      |
| 68) Chrysene-d12          | 21.13 | 240  | 241835   | 40.00 | ug/ml | 0.00      |
| 77) Perylene-d12          | 24.32 | 264  | 262995   | 40.00 | ug/ml | 0.00      |

System Monitoring Compounds

|                          |         |       |          |          |       |         |
|--------------------------|---------|-------|----------|----------|-------|---------|
| 4) 2-Fluorophenol        | 7.15    | 112   | 26546    | 9.49     | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 6.33%#  |
| 7) Phenol-d6             | 8.87    | 99    | 36844    | 9.44     | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 6.29%#  |
| 19) Nitrobenzene-d5      | 10.28   | 82    | 33312    | 8.74     | ug/ml | -0.01   |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 8.74%#  |
| 38) 2-Fluorobiphenyl     | 13.24   | 172   | 71199    | 9.58     | ug/ml | 0.00    |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 9.58%#  |
| 59) 2,4,6-Tribromophenol | 15.60   | 330   | 11829    | 8.17     | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 5.45%#  |
| 71) Terphenyl-d14        | 19.32   | 244   | 38951    | 10.52    | ug/ml | -0.01   |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 10.52%# |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.19  | 42   | 25086m   | 10.01 | ug/ml |        |
| 3) Pyridine                    | 4.31  | 79   | 31358m   | 8.83  | ug/ml |        |
| 5) Aniline                     | 8.81  | 93   | 40886    | 10.37 | ug/ml | 98     |
| 6) Bis(2-chloroethyl) Ether    | 8.95  | 93   | 30034    | 9.35  | ug/ml | 97     |
| 8) Phenol                      | 8.89  | 94   | 35818m   | 8.96  | ug/ml |        |
| 9) 2-Chlorophenol              | 9.02  | 128  | 32914    | 9.55  | ug/ml | 99     |
| 10) 1,3-Dichlorobenzene        | 9.24  | 146  | 36641    | 10.03 | ug/ml | 98     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146  | 38222    | 10.27 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146  | 34455    | 9.78  | ug/ml | 97     |
| 13) Benzyl Alcohol             | 9.64  | 108  | 18531    | 8.76  | ug/ml | 97     |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45   | 47571    | 9.01  | ug/ml | 88     |
| 15) 2-Methylphenol             | 9.87  | 107  | 25872    | 10.00 | ug/ml | 98     |
| 16) Hexachloroethane           | 10.18 | 117  | 16954    | 10.01 | ug/ml | 94     |
| 17) N-Nitrosodi-n-propylamine  | 10.06 | 70   | 23644    | 8.99  | ug/ml | 89     |
| 18) 4-Methylphenol             | 10.14 | 107  | 35822    | 9.11  | ug/ml | 96     |
| 20) Nitrobenzene               | 10.31 | 77   | 32576    | 9.24  | ug/ml | 97     |
| 22) Isophorone                 | 10.72 | 82   | 68596    | 9.71  | ug/ml | 97     |
| 23) 2-Nitrophenol              | 10.84 | 139  | 17870    | 9.08  | ug/ml | 94     |
| 24) 2,4-Dimethylphenol         | 10.99 | 122  | 22946    | 8.82  | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93   | 38509    | 9.70  | ug/ml | 97     |

(#) = qualifier out of range (m) = manual integration  
 0602F005.D 0602BNC7.M Thu Jun 03 11:34:26 2010

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6-3-10



Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:50 2010

Vial: 3  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.28 | 162  | 28397    | 9.62  | ug/ml  | 97     |
| 27) Benzoic Acid               | 11.18 | 122  | 14734    | 6.60  | ug/ml  | 93     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 31946    | 10.19 | ug/ml  | 99     |
| 29) Naphthalene                | 11.48 | 128  | 98207    | 10.45 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 42506    | 10.25 | ug/ml  | 98     |
| 31) Hexachlorobutadiene        | 11.71 | 225  | 19642    | 9.88  | ug/ml  | 98     |
| 32) 4-Chloro-3-methylphenol    | 12.48 | 107  | 31095    | 10.09 | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 61446    | 10.28 | ug/ml  | 99     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 11969    | 12.54 | ug/ml  | 98     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 22060    | 9.43  | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.20 | 196  | 24219    | 9.29  | ug/ml  | 98     |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 61401    | 9.37  | ug/ml  | 97     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 20458    | 9.70  | ug/ml  | 94     |
| 41) Acenaphthylene             | 14.08 | 152  | 99975    | 9.90  | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.93 | 163  | 80744    | 10.48 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.01 | 165  | 17837    | 10.21 | ug/ml  | 87     |
| 44) Acenaphthene               | 14.36 | 154  | 60029    | 10.41 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.28 | 138  | 18715    | 10.19 | ug/ml  | 98     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 4551     | 4.49  | ug/ml  | 91     |
| 47) Dibenzofuran               | 14.64 | 168  | 96912    | 10.66 | ug/ml  | 91     |
| 48) 4-Nitrophenol              | 14.68 | 109  | 6093     | 6.12  | ug/ml# | 1      |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 23833    | 10.77 | ug/ml  | 96     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 18936    | 9.97  | ug/ml# | 70     |
| 51) Fluorene                   | 15.19 | 166  | 73383    | 10.78 | ug/ml  | 96     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 37654    | 10.80 | ug/ml  | 95     |
| 53) Diethyl Phthalate          | 15.08 | 149  | 86042    | 11.55 | ug/ml  | 98     |
| 54) 4-Nitroaniline             | 15.27 | 138  | 15929    | 10.02 | ug/ml  | 95     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 9476     | 7.87  | ug/ml  | 94     |
| 56) N-Nitrosodiphenylamine     | 15.42 | 169  | 48404    | 10.66 | ug/ml  | 100    |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 76355    | 9.89  | ug/ml  | 95     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 20207    | 9.39  | ug/ml  | 95     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 23710    | 9.50  | ug/ml  | 91     |
| 62) Pentachlorophenol          | 16.43 | 266  | 8788     | 6.27  | ug/ml  | 98     |
| 63) Phenanthrene               | 16.75 | 178  | 101760   | 10.73 | ug/ml  | 99     |
| 64) Anthracene                 | 16.83 | 178  | 99958    | 10.02 | ug/ml  | 99     |
| 65) Carbazole                  | 17.12 | 167  | 78635    | 9.66  | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 97039    | 8.94  | ug/ml  | 98     |
| 67) Fluoranthene               | 18.66 | 202  | 79480    | 9.23  | ug/ml  | 96     |
| 69) Benzidine                  | 18.93 | 184  | 30551    | 15.05 | ug/ml  | 96     |
| 70) Pyrene                     | 19.02 | 202  | 77346    | 11.98 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 32756    | 8.91  | ug/ml  | 97     |

(#) = qualifier out of range (m) = manual integration  
 0602F005.D 0602BNC7.M Thu Jun 03 11:34:26 2010

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6-3-10

Data File : J:\MS07\DATA\060210\0602F005.D  
Acq On : 2 Jun 2010 5:58 pm  
Sample : 10PPM 8270 ICAL SVM32-21D  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 03 10:48:50 2010

Vial: 3  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Initial Calibration  
DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc | Unit  | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.11 | 252  | 24152    | 9.56 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.11 | 228  | 53498    | 9.41 | ug/ml | 99     |
| 75) Chrysene                   | 21.18 | 228  | 53106    | 9.65 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 46281    | 8.84 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.76 | 149  | 90208    | 7.79 | ug/ml | 99     |
| 79) Benzo(b)fluoranthene       | 23.43 | 252  | 57418    | 8.48 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.50 | 252  | 62067    | 8.83 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 52544    | 9.34 | ug/ml | 97     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.74 | 276  | 44132    | 9.06 | ug/ml | 99     |
| 83) Dibenz(a,h)anthracene      | 26.82 | 278  | 45317    | 8.73 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.32 | 276  | 52555    | 9.99 | ug/ml | 96     |

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(#) = qualifier out of range (m) = manual integration  
0602F005.D 0602BNC7.M Thu Jun 03 11:34:27 2010

6-3-10 Page 3





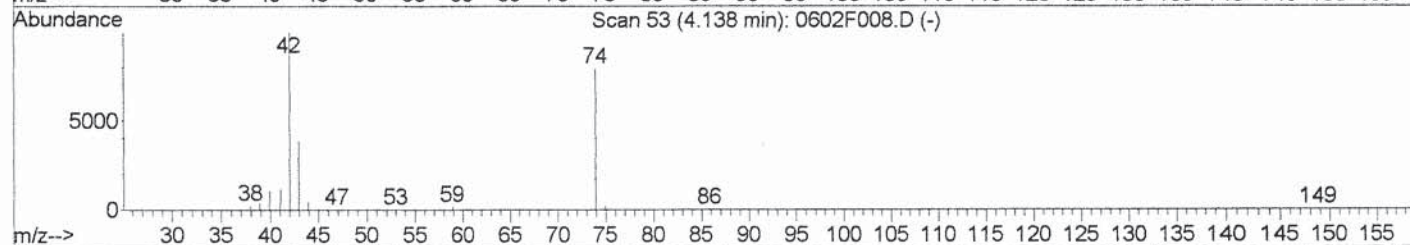
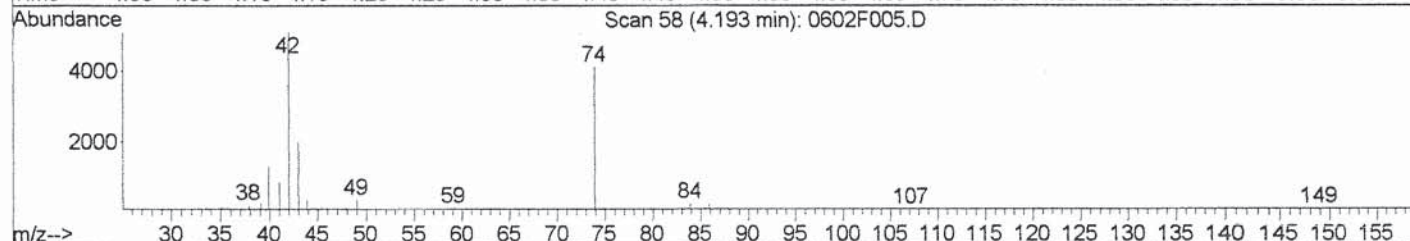
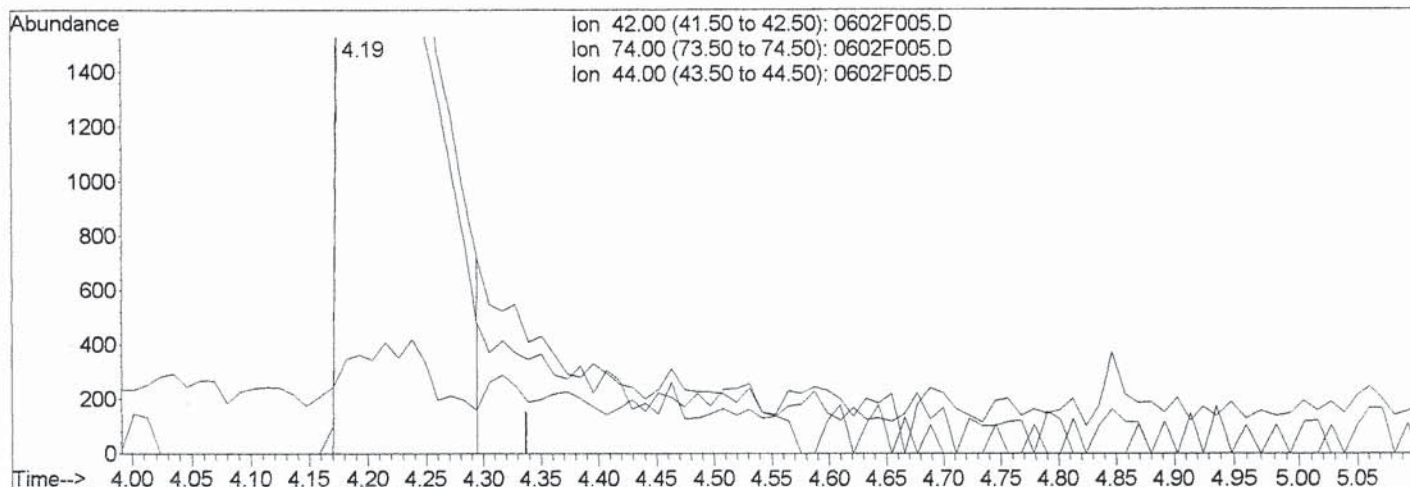
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F005.D

(2) N-Nitrosodimethylamine (T)

4.19min 7.60ug/ml

response 19042

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 82.13 |
| 44.00 | 4.40  | 3.79  |
| 0.00  | 0.00  | 0.00  |

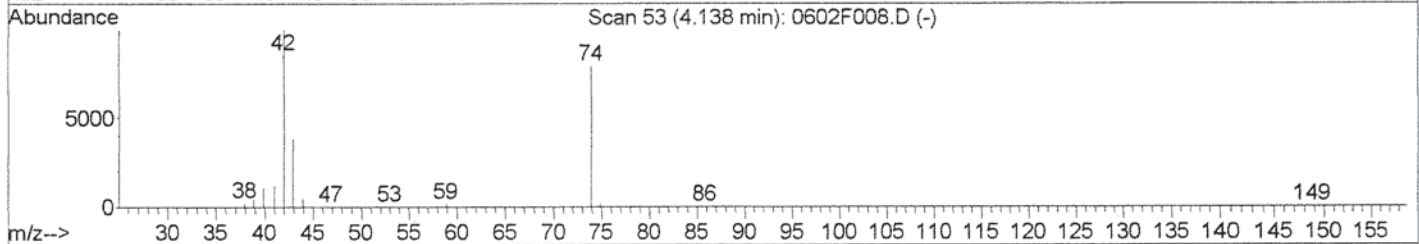
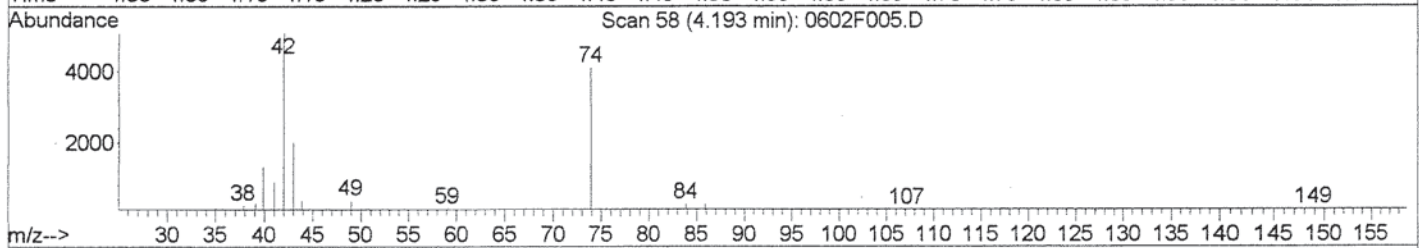
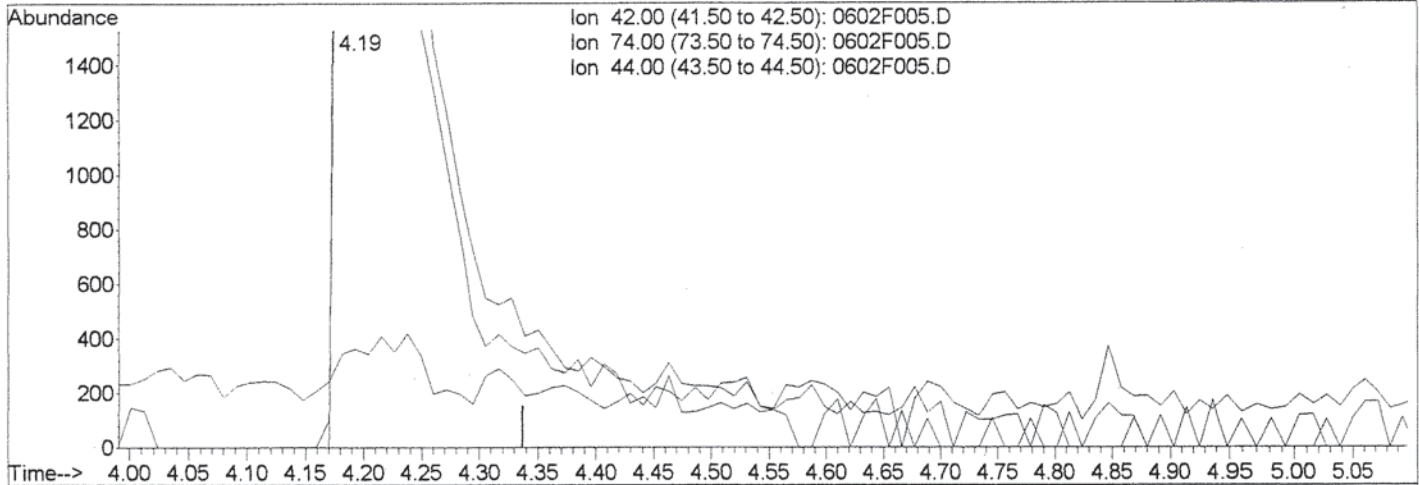


Data File : J:\MS07\DATA\060210\0602F005.D  
Acq On : 2 Jun 2010 5:58 pm  
Sample : 10PPM 8270 ICAL SVM32-21D  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:52 2010

Vial: 3  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Multiple Level Calibration



TIC: 0602F005.D

(2) N-Nitrosodimethylamine (T)

4.19min 10.01ug/ml m

response 25086

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 81.04 |
| 44.00 | 4.40  | 7.12  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-270*

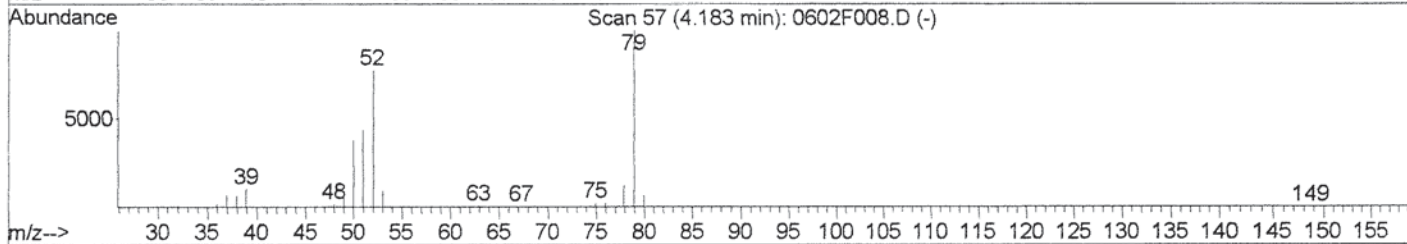
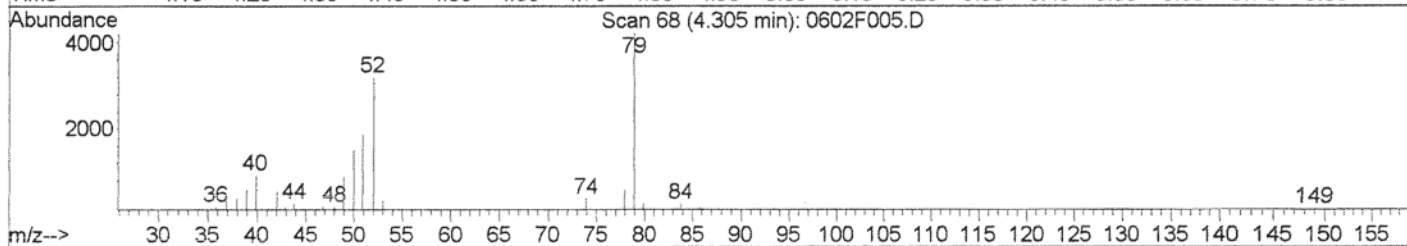
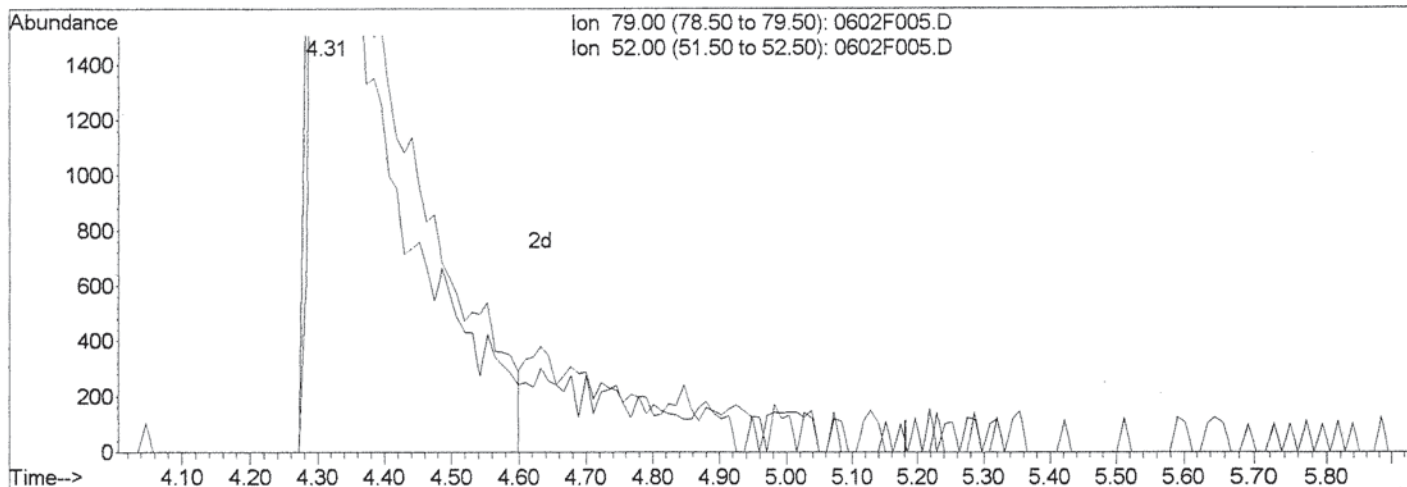
*LB*  
*6/11/10*

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:52 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F005.D

| (3) Pyridine (T) |           |       |
|------------------|-----------|-------|
| 4.31min          | 7.54ug/ml |       |
| response         | 26783     |       |
| Ion              | Exp%      | Act%  |
| 79.00            | 100       | 100   |
| 52.00            | 77.00     | 75.18 |
| 0.00             | 0.00      | 0.00  |
| 0.00             | 0.00      | 0.00  |



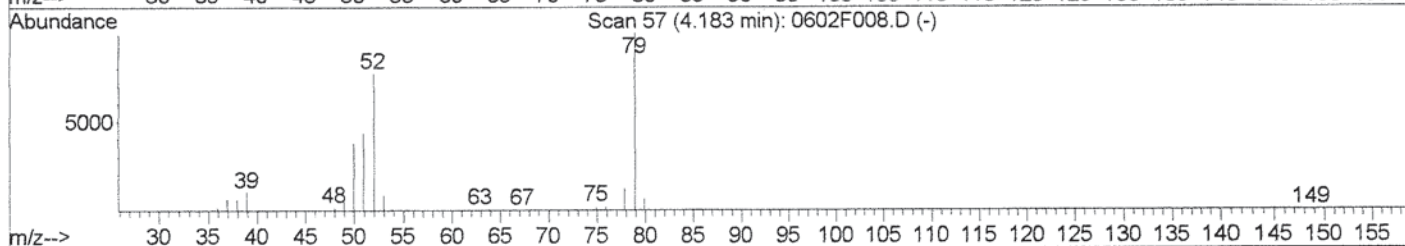
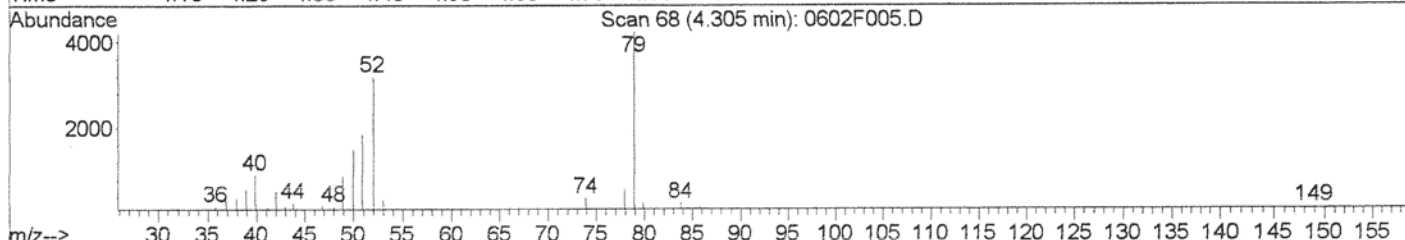
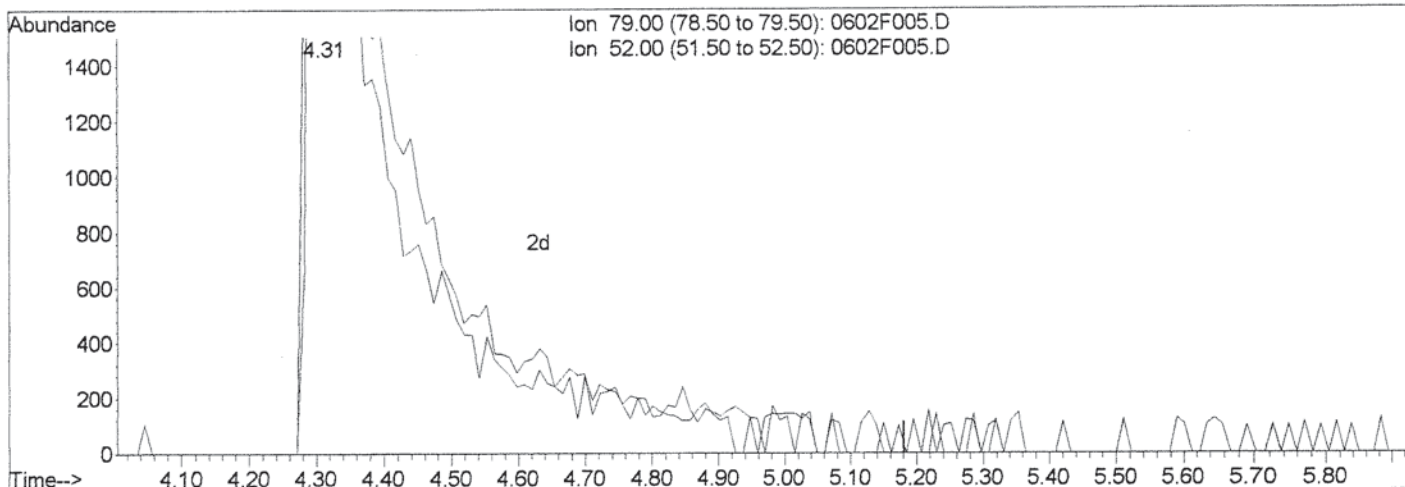
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:52 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F005.D

| (3) Pyridine (T) |             |       |
|------------------|-------------|-------|
| 4.31min          | 8.83ug/ml m |       |
| response         | 31358       |       |
| Ion              | Exp%        | Act%  |
| 79.00            | 100         | 100   |
| 52.00            | 77.00       | 75.44 |
| 0.00             | 0.00        | 0.00  |
| 0.00             | 0.00        | 0.00  |

*SC M 6-3-10*

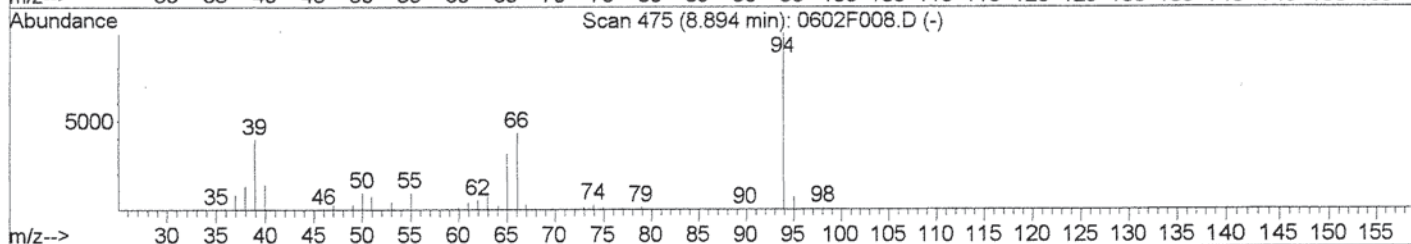
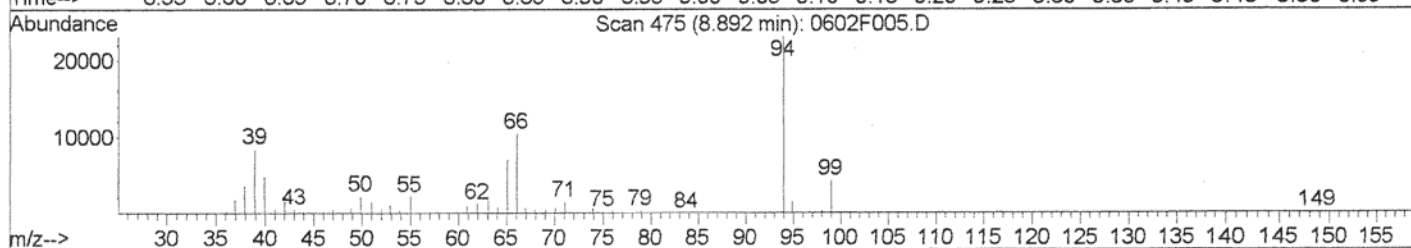
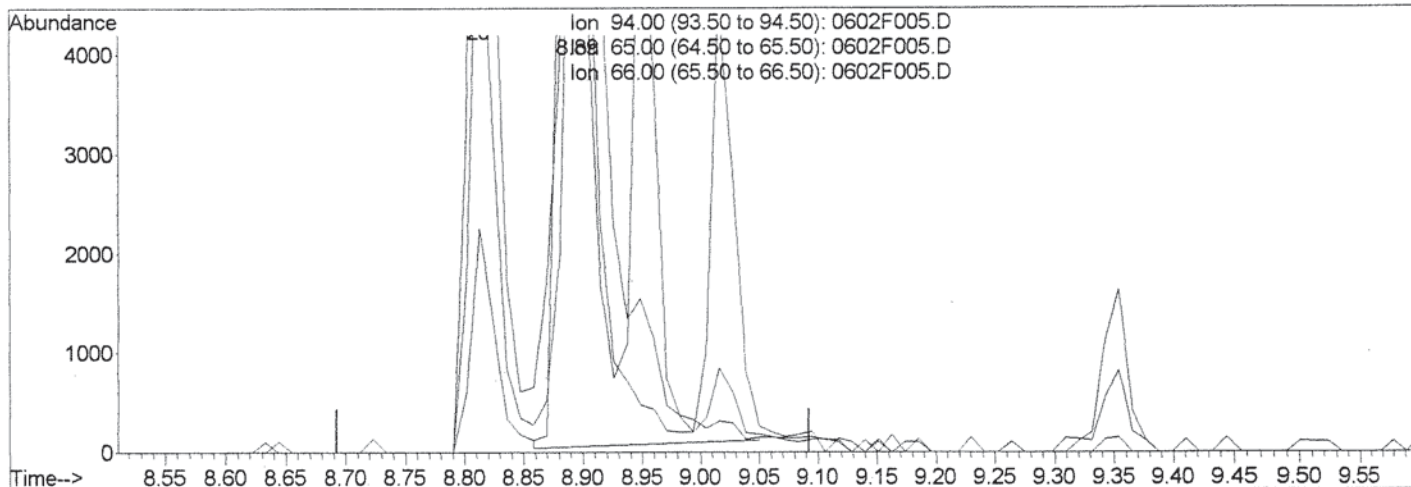
*LB*  
*4/4/10*

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:52 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F005.D

(8) Phenol (TMC)

8.89min 9.57ug/ml

response 38255

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 29.66 |
| 66.00 | 44.30 | 43.61 |
| 0.00  | 0.00  | 0.00  |



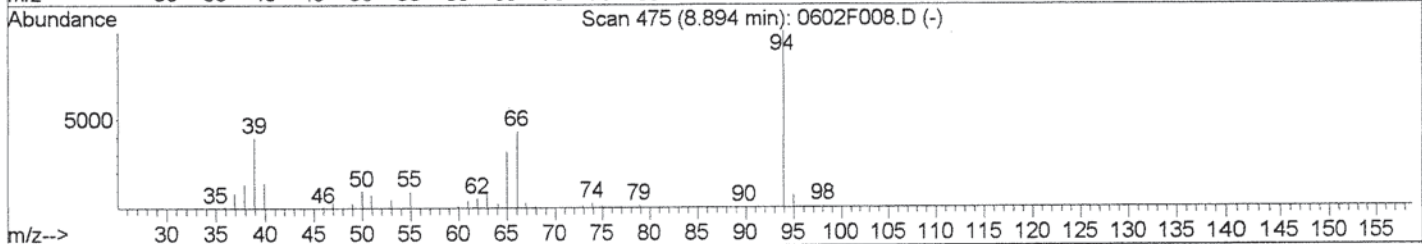
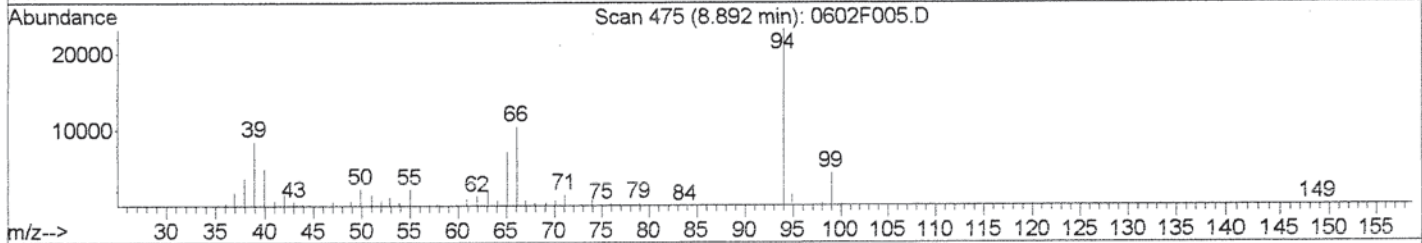
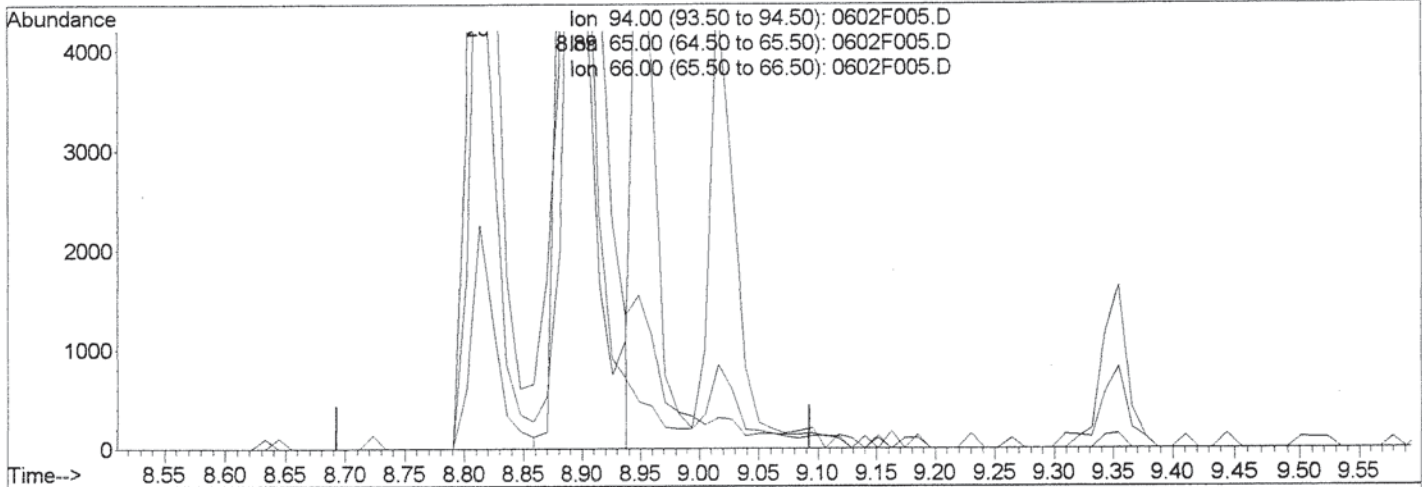
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F005.D  
 Acq On : 2 Jun 2010 5:58 pm  
 Sample : 10PPM 8270 ICAL SVM32-21D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:52 2010

Vial: 3  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F005.D

(8) Phenol (TMC)

8.89min 8.96ug/ml m

response 35818

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 30.65 |
| 66.00 | 44.30 | 45.16 |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes: 05, 6-3-10*

*Handwritten signature: LB 4/4/10*

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 107827   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 398983   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 232100   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.71 | 188  | 344754   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 241469   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.32 | 264  | 276718   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |                |     |            |         |       |      |
|--------------------------|----------------|-----|------------|---------|-------|------|
| 4) 2-Fluorophenol        | 7.15           | 112 | 55135      | 19.23   | ug/ml | 0.02 |
| Spiked Amount 150.000    | Range 21 - 100 |     | Recovery = | 12.82%# |       |      |
| 7) Phenol-d6             | 8.87           | 99  | 75461      | 18.87   | ug/ml | 0.00 |
| Spiked Amount 150.000    | Range 10 - 94  |     | Recovery = | 12.58%  |       |      |
| 19) Nitrobenzene-d5      | 10.29          | 82  | 71229      | 18.24   | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 35 - 114 |     | Recovery = | 18.24%# |       |      |
| 38) 2-Fluorobiphenyl     | 13.24          | 172 | 146020     | 19.19   | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 43 - 116 |     | Recovery = | 19.19%# |       |      |
| 59) 2,4,6-Tribromophenol | 15.59          | 330 | 26645      | 19.07   | ug/ml | 0.00 |
| Spiked Amount 150.000    | Range 10 - 123 |     | Recovery = | 12.71%  |       |      |
| 71) Terphenyl-d14        | 19.32          | 244 | 79545      | 21.51   | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 33 - 141 |     | Recovery = | 21.51%# |       |      |

Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.17  | 42  | 50289m | 19.58 | ug/ml |        |
| 3) Pyridine                    | 4.26  | 79  | 65653m | 18.04 | ug/ml |        |
| 5) Aniline                     | 8.81  | 93  | 85294  | 21.11 | ug/ml | 93     |
| 6) Bis(2-chloroethyl) Ether    | 8.96  | 93  | 64648  | 19.64 | ug/ml | 94     |
| 8) Phenol                      | 8.89  | 94  | 77609m | 18.95 | ug/ml |        |
| 9) 2-Chlorophenol              | 9.02  | 128 | 71798  | 20.34 | ug/ml | 91     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146 | 78347  | 20.92 | ug/ml | 97     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146 | 78619  | 20.61 | ug/ml | 97     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146 | 73274  | 20.30 | ug/ml | 95     |
| 13) Benzyl Alcohol             | 9.63  | 108 | 40524  | 18.69 | ug/ml | 91     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45  | 97948  | 18.11 | ug/ml | 75     |
| 15) 2-Methylphenol             | 9.88  | 107 | 53112  | 20.03 | ug/ml | 90     |
| 16) Hexachloroethane           | 10.18 | 117 | 35563  | 20.49 | ug/ml | 82     |
| 17) N-Nitrosodi-n-propylamine  | 10.07 | 70  | 50989  | 18.93 | ug/ml | 93     |
| 18) 4-Methylphenol             | 10.14 | 107 | 77580  | 19.27 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.31 | 77  | 70406  | 19.50 | ug/ml | 97     |
| 22) Isophorone                 | 10.72 | 82  | 152700 | 21.22 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.84 | 139 | 40761  | 20.33 | ug/ml | 89     |
| 24) 2,4-Dimethylphenol         | 10.98 | 122 | 52982  | 19.98 | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.12 | 93  | 84795  | 20.97 | ug/ml | 98     |

(#) = qualifier out of range (m) = manual integration  
 0602F006.D 0602BNC7.M Thu Jun 03 11:34:28 2010

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 6-3-10

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.28 | 162  | 62920    | 20.91 | ug/ml  | 94     |
| 27) Benzoic Acid               | 11.21 | 122  | 39035    | 17.18 | ug/ml  | 97     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 67561    | 21.15 | ug/ml  | 98     |
| 29) Naphthalene                | 11.48 | 128  | 202046   | 21.11 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 92217    | 21.84 | ug/ml  | 99     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 43507    | 21.47 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.46 | 107  | 64285    | 20.47 | ug/ml  | 94     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 131239   | 21.55 | ug/ml  | 96     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 34516    | 20.83 | ug/ml  | 98     |
| 36) 2,4,6-Trichlorophenol      | 13.11 | 196  | 48387    | 20.21 | ug/ml  | 99     |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 50981    | 19.11 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 127345   | 18.97 | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.61 | 65   | 44993    | 20.84 | ug/ml  | 84     |
| 41) Acenaphthylene             | 14.07 | 152  | 214017   | 20.70 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.93 | 163  | 171907   | 21.79 | ug/ml  | 100    |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 37142    | 20.77 | ug/ml  | 80     |
| 44) Acenaphthene               | 14.35 | 154  | 120815   | 20.47 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.27 | 138  | 39608    | 21.05 | ug/ml  | 97     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 14657    | 14.13 | ug/ml  | 93     |
| 47) Dibenzofuran               | 14.65 | 168  | 198067   | 21.28 | ug/ml  | 90     |
| 48) 4-Nitrophenol              | 14.66 | 109  | 17318    | 17.00 | ug/ml# | 1      |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 47758    | 21.07 | ug/ml  | 80     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 40042    | 20.58 | ug/ml  | 95     |
| 51) Fluorene                   | 15.20 | 166  | 145342   | 20.84 | ug/ml  | 97     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.22 | 204  | 74932    | 20.99 | ug/ml  | 95     |
| 53) Diethyl Phthalate          | 15.07 | 149  | 173708   | 22.77 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.27 | 138  | 32289    | 19.83 | ug/ml  | 96     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.31 | 198  | 21784    | 17.67 | ug/ml  | 77     |
| 56) N-Nitrosodiphenylamine     | 15.42 | 169  | 98866    | 21.26 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 167281   | 21.16 | ug/ml  | 94     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 41910    | 20.16 | ug/ml  | 92     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 47682    | 19.79 | ug/ml  | 97     |
| 62) Pentachlorophenol          | 16.43 | 266  | 21580    | 15.94 | ug/ml  | 95     |
| 63) Phenanthrene               | 16.74 | 178  | 188045   | 20.53 | ug/ml  | 99     |
| 64) Anthracene                 | 16.82 | 178  | 189032   | 19.63 | ug/ml  | 100    |
| 65) Carbazole                  | 17.11 | 167  | 144391   | 18.37 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.73 | 149  | 198519   | 18.93 | ug/ml  | 98     |
| 67) Fluoranthene               | 18.66 | 202  | 140879   | 16.94 | ug/ml  | 99     |
| 69) Benzidine                  | 18.93 | 184  | 52194    | 25.74 | ug/ml  | 98     |
| 70) Pyrene                     | 19.02 | 202  | 138437   | 21.48 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 73189    | 19.93 | ug/ml  | 98     |

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

0602F006.D 0602BNC7.M Thu Jun 03 11:34:28 2010

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6-3-10



Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.10 | 252  | 51085    | 20.24 | ug/ml | 97     |
| 74) Benz(a)anthracene          | 21.10 | 228  | 111232   | 19.60 | ug/ml | 99     |
| 75) Chrysene                   | 21.18 | 228  | 107890   | 19.64 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 103877   | 19.87 | ug/ml | 98     |
| 78) Di-n-octyl Phthalate       | 22.77 | 149  | 193270   | 15.86 | ug/ml | 98     |
| 79) Benzo(b)fluoranthene       | 23.44 | 252  | 133681   | 18.75 | ug/ml | 97     |
| 80) Benzo(k)fluoranthene       | 23.50 | 252  | 142980   | 19.33 | ug/ml | 97     |
| 81) Benzo(a)pyrene             | 24.17 | 252  | 116697   | 19.71 | ug/ml | 100    |
| 82) Indeno(1,2,3-cd)pyrene     | 26.74 | 276  | 94671    | 18.46 | ug/ml | 98     |
| 83) Dibenz(a,h)anthracene      | 26.82 | 278  | 105237   | 19.27 | ug/ml | 97     |
| 84) Benzo(g,h,i)perylene       | 27.31 | 276  | 107472   | 19.42 | ug/ml | 99     |

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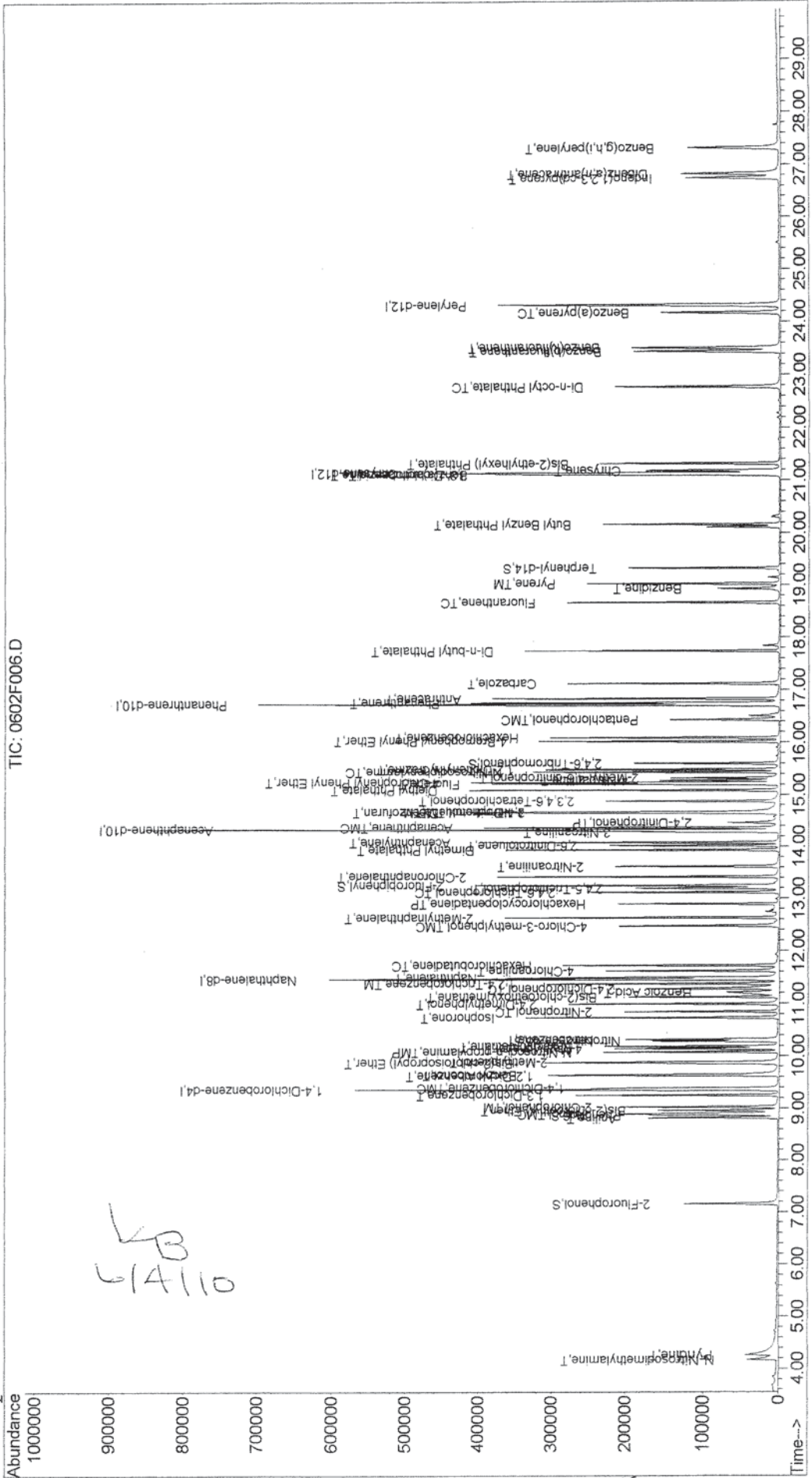
*6-3-10*

Data File : J:\MS07\DATA\060210\0602F006.D  
Acq On : 2 Jun 2010 6:38 pm  
Sample : 20PPM 8270 ICAL SVM32-21E  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:53 2010

Vial: 4  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx\_5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



Data File : J:\MS07\DATA\060210\0602F006.D

Acq On : 2 Jun 2010 6:38 pm  
Sample : 20PPM 8270 ICAL SVM32-21E  
Misc :

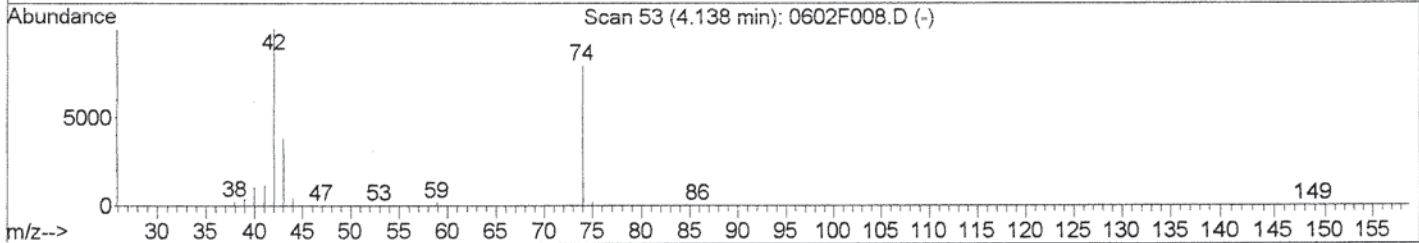
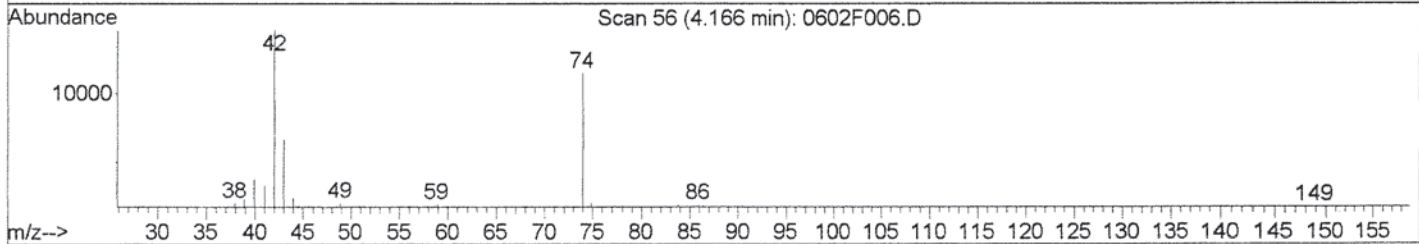
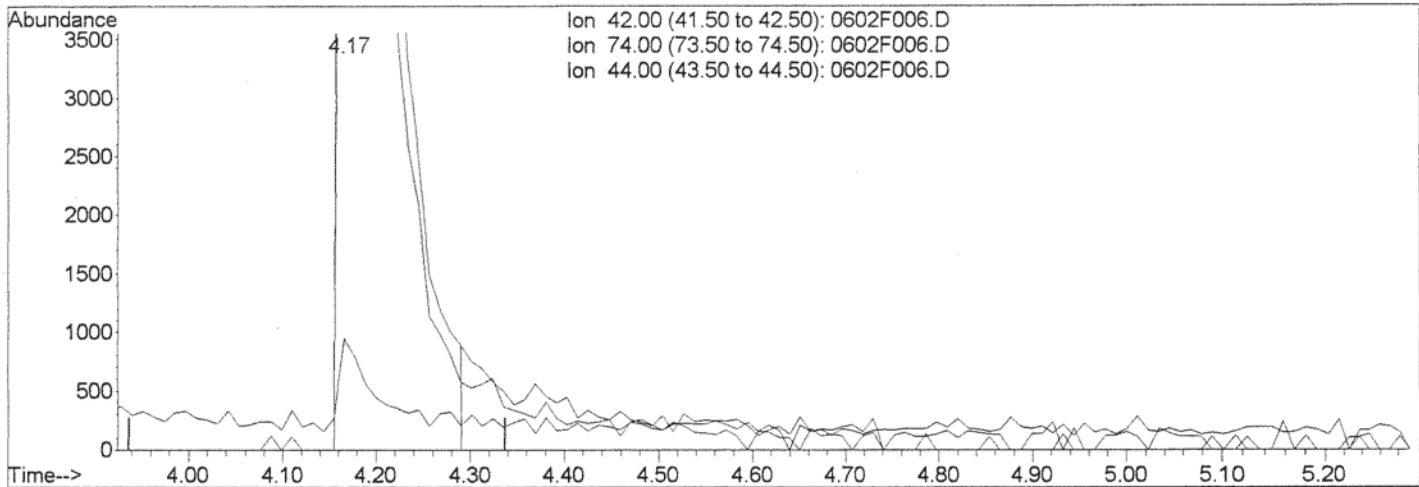
Vial: 4  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 3 10:48 2010

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Multiple Level Calibration



TIC: 0602F006.D

(2) N-Nitrosodimethylamine (T)

4.17min 16.91ug/ml

response 43432

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 76.23 |
| 44.00 | 4.40  | 5.09  |
| 0.00  | 0.00  | 0.00  |



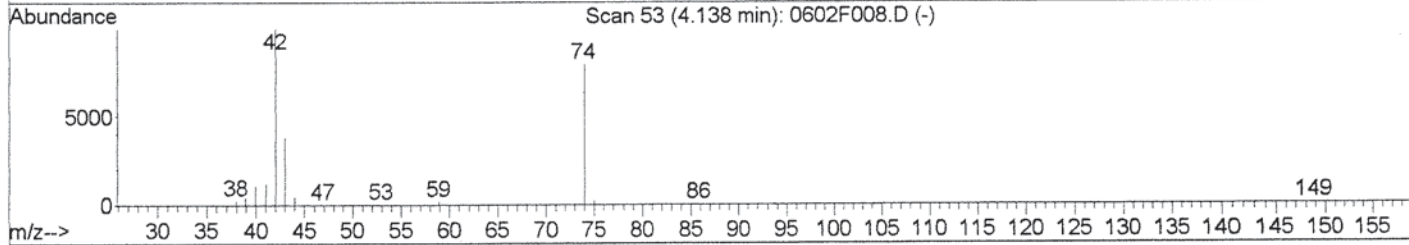
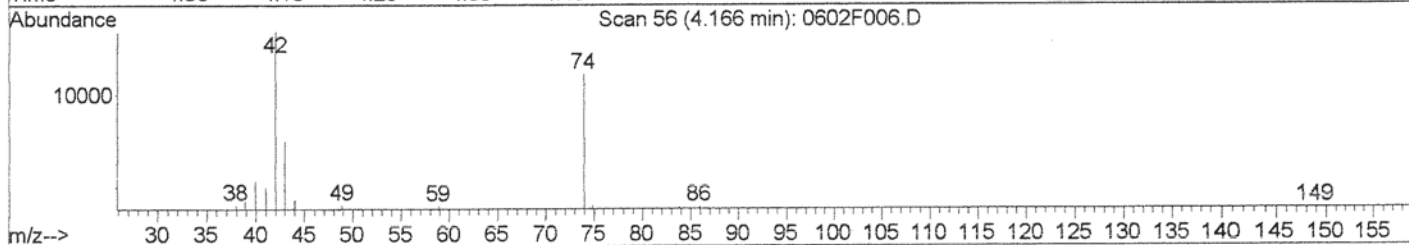
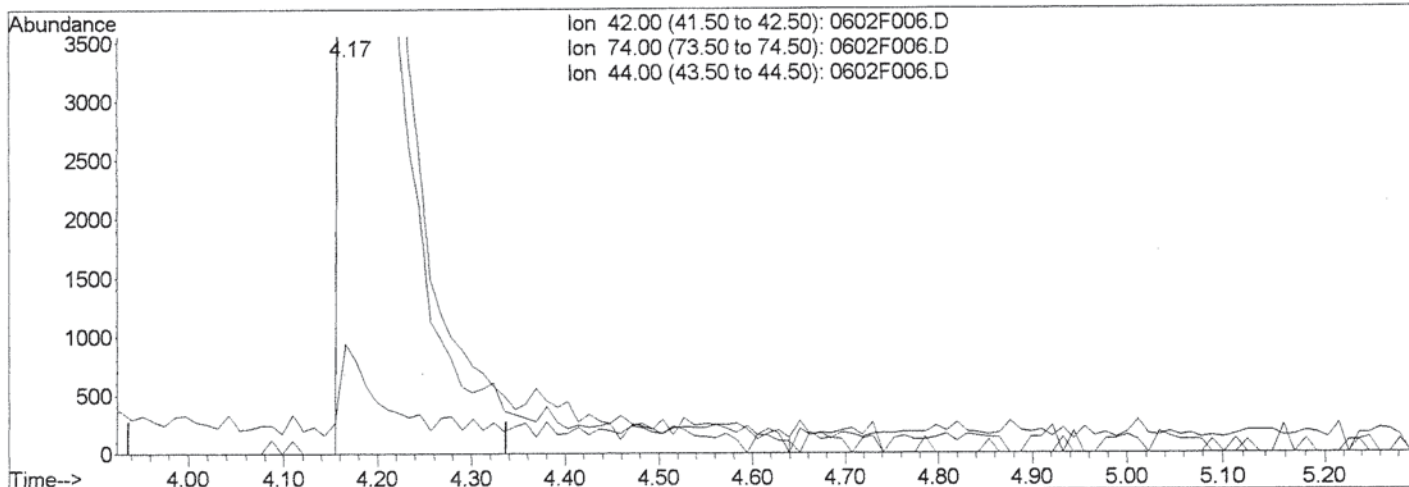
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:53 2010

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F006.D

(2) N-Nitrosodimethylamine (T)

4.17min 19.58ug/ml m

response 50289

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 75.89 |
| 44.00 | 4.40  | 6.12  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes: 'IC' and '146-3-10' are present in the table area.*

*Handwritten signature and date: 'LB' and '4/14/10'.*

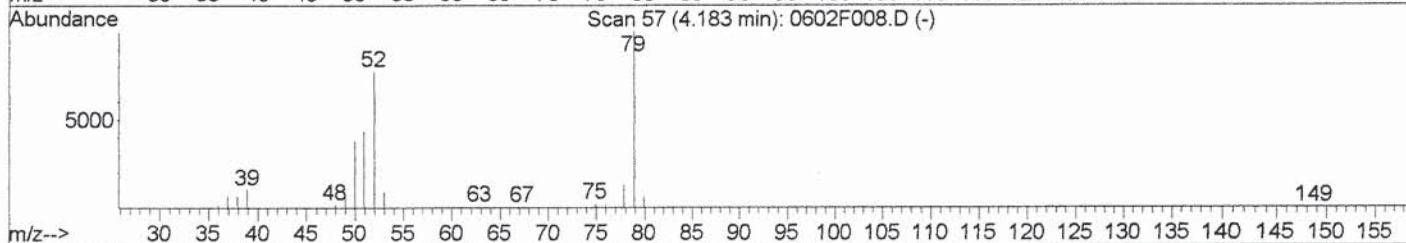
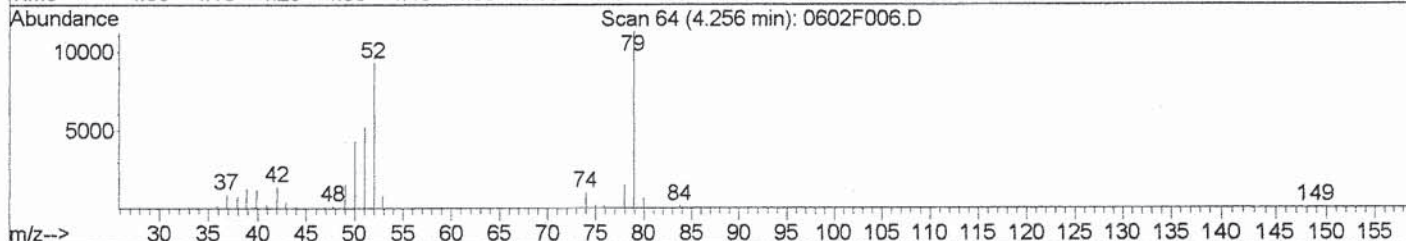
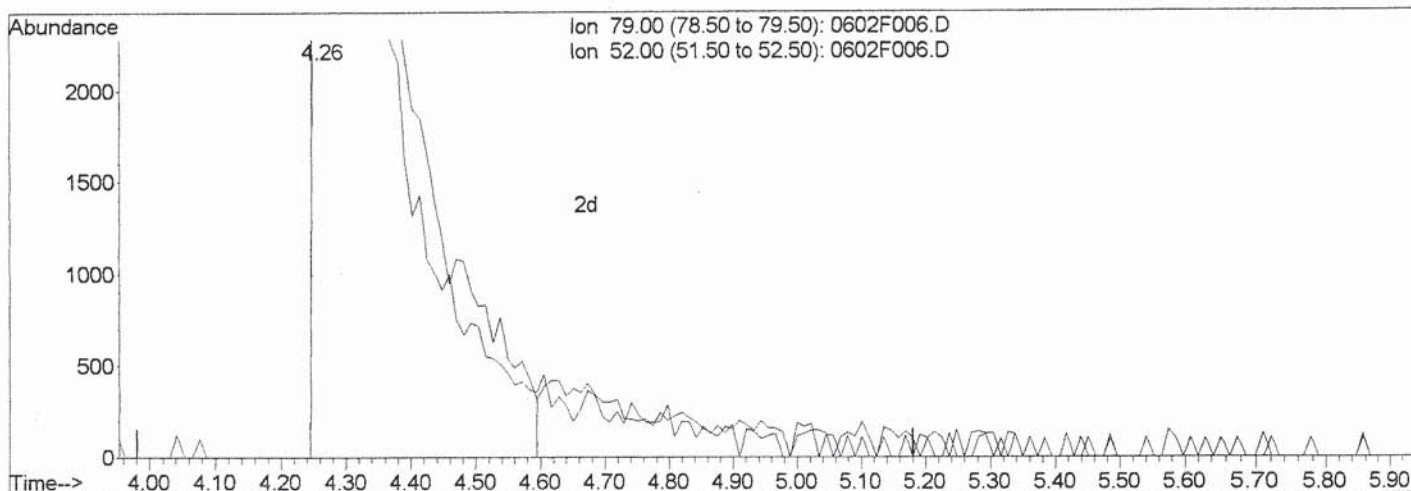
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:53 2010

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F006.D

(3) Pyridine (T)

4.26min 16.53ug/ml

response 60139

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 81.88 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

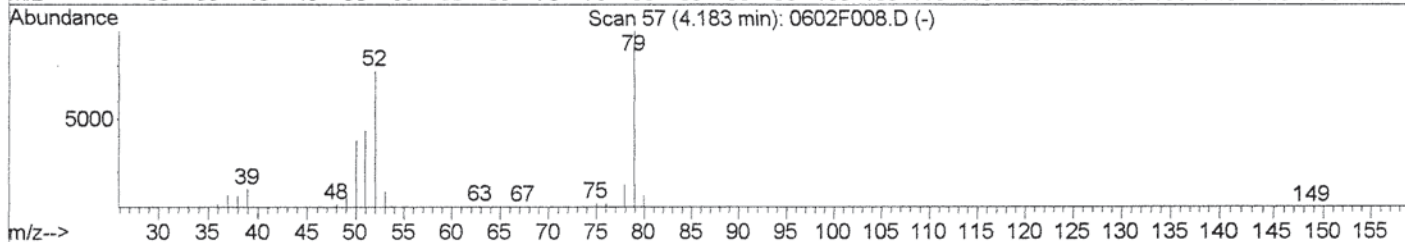
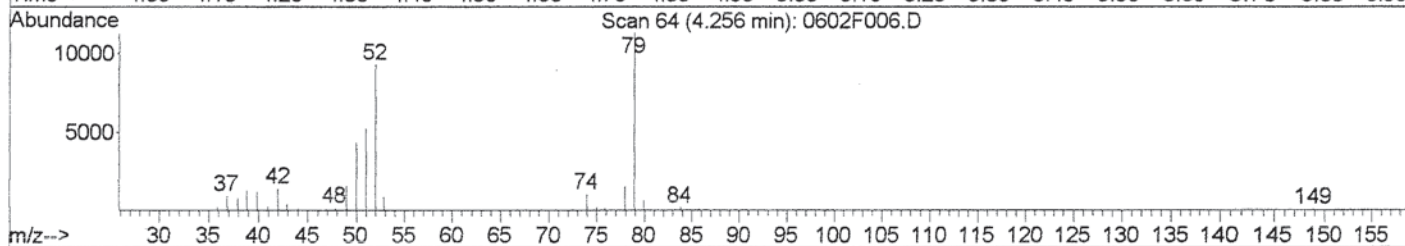
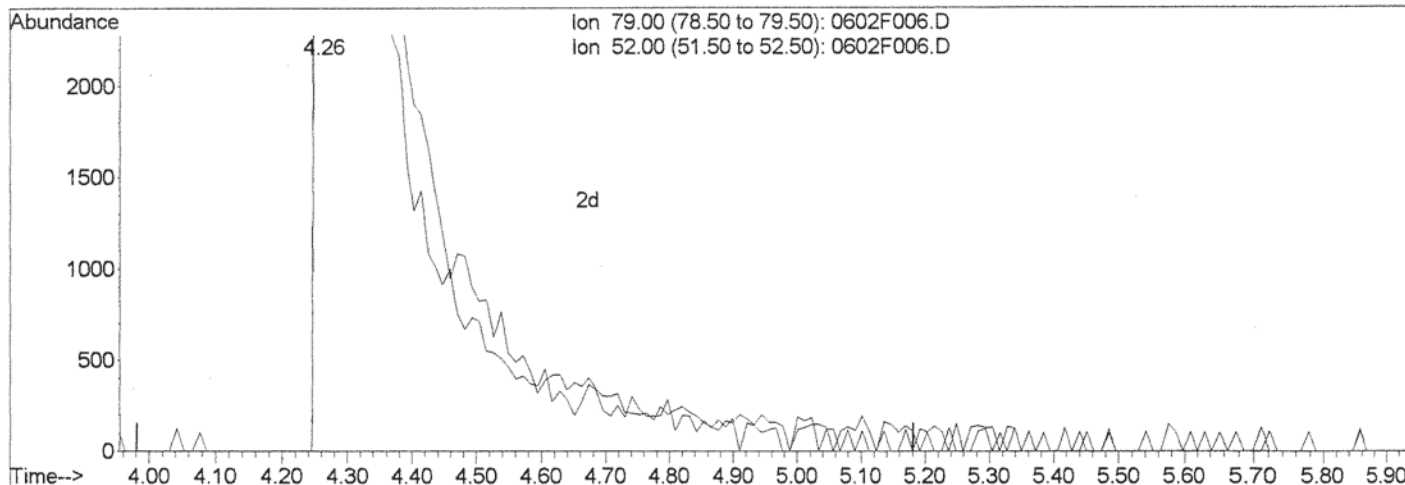
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:53 2010

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F006.D

(3) Pyridine (T)

4.26min 18.04ug/ml m

response 65653

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 82.32 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-7-10*

*LB*  
*14/10*



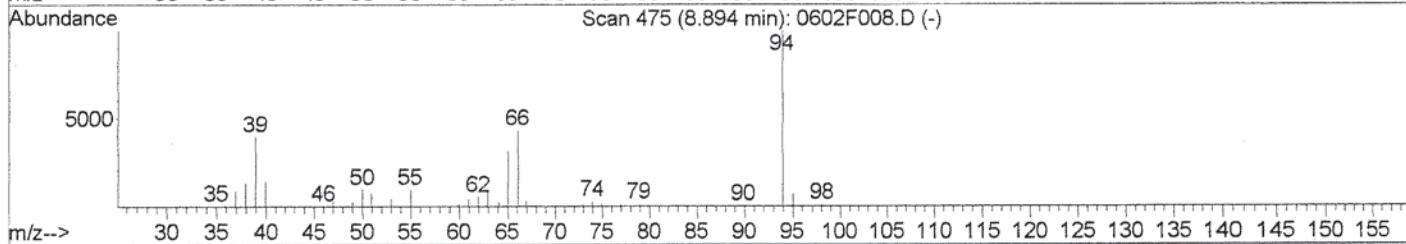
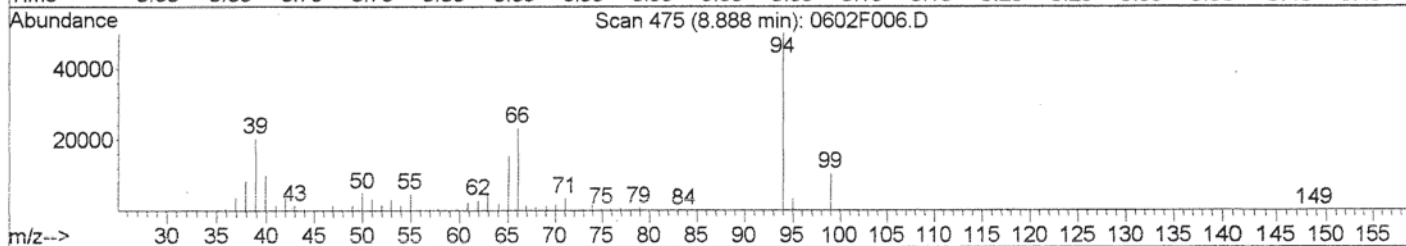
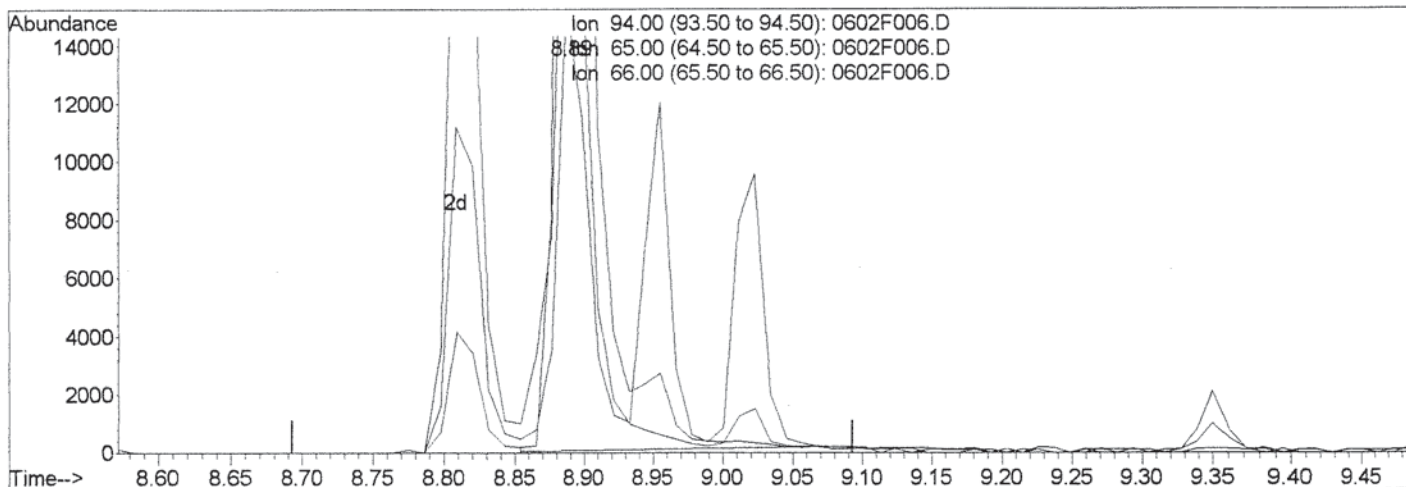
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F006.D  
 Acq On : 2 Jun 2010 6:38 pm  
 Sample : 20PPM 8270 ICAL SVM32-21E  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:53 2010

Vial: 4  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F006.D

(8) Phenol (TMC)

8.89min 20.05ug/ml

response 82120

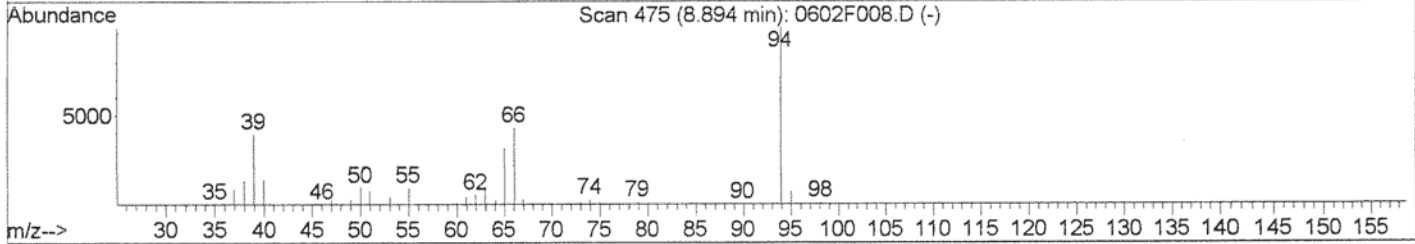
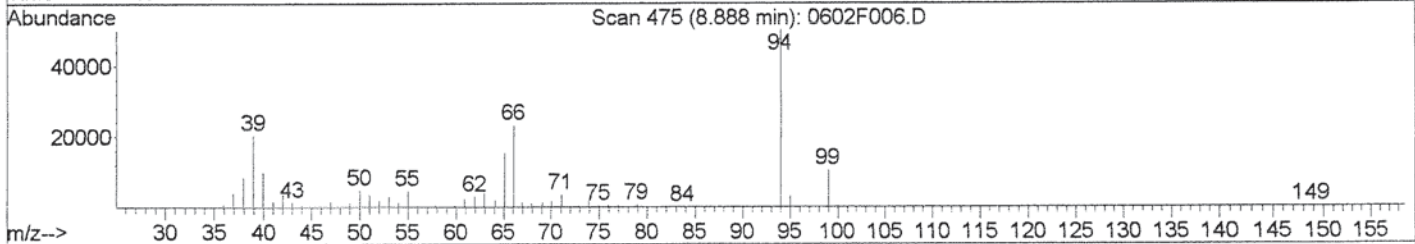
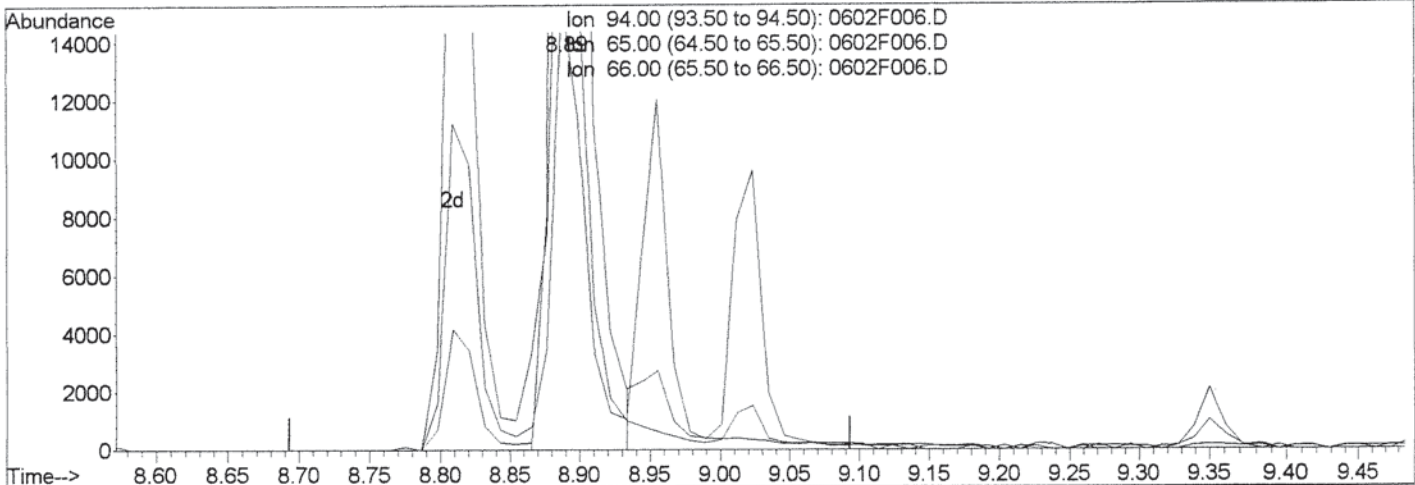
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 30.03 |
| 66.00 | 44.30 | 45.23 |
| 0.00  | 0.00  | 0.00  |

Data File : J:\MS07\DATA\060210\0602F006.D  
Acq On : 2 Jun 2010 6:38 pm  
Sample : 20PPM 8270 ICAL SVM32-21E  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:53 2010

Vial: 4  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Multiple Level Calibration



TIC: 0602F006.D

(8) Phenol (TMC)

8.89min 18.95ug/ml m

response 77609

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 30.87 |
| 66.00 | 44.30 | 46.32 |
| 0.00  | 0.00  | 0.00  |

*OT*  
*196-3-10*

*LB*  
*4/11/10*

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 109365   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 402061   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 218097   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.71 | 188  | 329281   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 257896   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.32 | 264  | 260318   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |                |            |        |       |      |
|--------------------------|---------|----------------|------------|--------|-------|------|
| 4) 2-Fluorophenol        | 7.14    | 112            | 146679     | 50.45  | ug/ml | 0.00 |
| Spiked Amount            | 150.000 | Range 21 - 100 | Recovery = | 33.63% |       |      |
| 7) Phenol-d6             | 8.86    | 99             | 195416     | 48.19  | ug/ml | 0.00 |
| Spiked Amount            | 150.000 | Range 10 - 94  | Recovery = | 32.13% |       |      |
| 19) Nitrobenzene-d5      | 10.28   | 82             | 183314     | 46.28  | ug/ml | 0.00 |
| Spiked Amount            | 100.000 | Range 35 - 114 | Recovery = | 46.28% |       |      |
| 38) 2-Fluorobiphenyl     | 13.24   | 172            | 358232     | 50.10  | ug/ml | 0.00 |
| Spiked Amount            | 100.000 | Range 43 - 116 | Recovery = | 50.10% |       |      |
| 59) 2,4,6-Tribromophenol | 15.59   | 330            | 65835      | 49.33  | ug/ml | 0.00 |
| Spiked Amount            | 150.000 | Range 10 - 123 | Recovery = | 32.89% |       |      |
| 71) Terphenyl-d14        | 19.32   | 244            | 217312     | 55.03  | ug/ml | 0.00 |
| Spiked Amount            | 100.000 | Range 33 - 141 | Recovery = | 55.03% |       |      |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.14  | 42   | 117711m  | 45.19 | ug/ml |        |
| 3) Pyridine                    | 4.20  | 79   | 161541m  | 43.77 | ug/ml |        |
| 5) Aniline                     | 8.81  | 93   | 168735   | 41.17 | ug/ml | 99     |
| 6) Bis(2-chloroethyl) Ether    | 8.96  | 93   | 143459   | 42.98 | ug/ml | 98     |
| 8) Phenol                      | 8.89  | 94   | 178719m  | 43.03 | ug/ml |        |
| 9) 2-Chlorophenol              | 9.02  | 128  | 157752   | 44.05 | ug/ml | 89     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146  | 178728   | 47.06 | ug/ml | 97     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146  | 175355   | 45.33 | ug/ml | 97     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146  | 169698   | 46.34 | ug/ml | 98     |
| 13) Benzyl Alcohol             | 9.64  | 108  | 93759    | 42.63 | ug/ml | 98     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45   | 222174   | 40.50 | ug/ml | 88     |
| 15) 2-Methylphenol             | 9.88  | 107  | 114618   | 42.62 | ug/ml | 90     |
| 16) Hexachloroethane           | 10.17 | 117  | 81722    | 46.43 | ug/ml | 88     |
| 17) N-Nitrosodi-n-propylamine  | 10.08 | 70   | 103499   | 37.88 | ug/ml | 87     |
| 18) 4-Methylphenol             | 10.14 | 107  | 181709   | 44.50 | ug/ml | 100    |
| 20) Nitrobenzene               | 10.32 | 77   | 165715   | 45.26 | ug/ml | 99     |
| 22) Isophorone                 | 10.74 | 82   | 316769   | 43.67 | ug/ml | 99     |
| 23) 2-Nitrophenol              | 10.84 | 139  | 86905    | 43.02 | ug/ml | 97     |
| 24) 2,4-Dimethylphenol         | 10.98 | 122  | 123093   | 46.06 | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.12 | 93   | 188702   | 46.31 | ug/ml | 99     |

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

LAB  
 LIANO

1  
 6-7-10



Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Vial: 5  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.28 | 162  | 143526   | 47.34 | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.25 | 122  | 102211   | 44.63 | ug/ml  | 99     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 150578   | 46.78 | ug/ml  | 99     |
| 29) Naphthalene                | 11.49 | 128  | 447021   | 46.34 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.61 | 127  | 204392   | 48.03 | ug/ml  | 98     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 96168    | 47.10 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.46 | 107  | 155560   | 49.16 | ug/ml  | 86     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 292555   | 47.66 | ug/ml  | 96     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 89107    | 43.36 | ug/ml  | 98     |
| 36) 2,4,6-Trichlorophenol      | 13.11 | 196  | 105888   | 47.06 | ug/ml  | 97     |
| 37) 2,4,5-Trichlorophenol      | 13.18 | 196  | 119511   | 47.67 | ug/ml  | 95     |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 303136   | 48.06 | ug/ml  | 100    |
| 40) 2-Nitroaniline             | 13.61 | 65   | 96099    | 47.36 | ug/ml  | 97     |
| 41) Acenaphthylene             | 14.07 | 152  | 454687   | 46.79 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.94 | 163  | 372031   | 50.18 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 77909    | 46.37 | ug/ml  | 95     |
| 44) Acenaphthene               | 14.36 | 154  | 255084   | 46.00 | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.29 | 138  | 86607    | 48.99 | ug/ml  | 100    |
| 46) 2,4-Dinitrophenol          | 14.45 | 184  | 47282    | 48.50 | ug/ml  | 98     |
| 47) Dibenzofuran               | 14.65 | 168  | 437168   | 49.99 | ug/ml  | 99     |
| 48) 4-Nitrophenol              | 14.65 | 109  | 45732    | 47.78 | ug/ml# | 67     |
| 49) 2,4-Dinitrotoluene         | 14.67 | 165  | 103358   | 48.54 | ug/ml  | 99     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 93925    | 51.38 | ug/ml  | 95     |
| 51) Fluorene                   | 15.20 | 166  | 326905   | 49.89 | ug/ml  | 98     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.22 | 204  | 161128   | 48.03 | ug/ml  | 93     |
| 53) Diethyl Phthalate          | 15.09 | 149  | 354895   | 49.51 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.28 | 138  | 77365    | 50.56 | ug/ml  | 97     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 60252    | 52.02 | ug/ml  | 75     |
| 56) N-Nitrosodiphenylamine     | 15.42 | 169  | 243086   | 55.64 | ug/ml  | 100    |
| 57) 1,2-Diphenylhydrazine      | 15.48 | 77   | 355134   | 47.82 | ug/ml  | 99     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 89629    | 45.15 | ug/ml  | 92     |
| 61) Hexachlorobenzene          | 16.09 | 284  | 105665   | 45.92 | ug/ml  | 84     |
| 62) Pentachlorophenol          | 16.43 | 266  | 58384    | 45.15 | ug/ml  | 99     |
| 63) Phenanthrene               | 16.74 | 178  | 403270   | 46.10 | ug/ml  | 100    |
| 64) Anthracene                 | 16.83 | 178  | 428922   | 46.63 | ug/ml  | 99     |
| 65) Carbazole                  | 17.11 | 167  | 343589   | 45.76 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.73 | 149  | 475794   | 47.50 | ug/ml  | 100    |
| 67) Fluoranthene               | 18.66 | 202  | 336131   | 42.33 | ug/ml  | 99     |
| 69) Benzidine                  | 18.93 | 184  | 89555    | 41.36 | ug/ml  | 98     |
| 70) Pyrene                     | 19.02 | 202  | 347908   | 50.54 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 182255   | 46.46 | ug/ml  | 98     |

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

0602F007.D 0602BNC7.M Thu Jun 03 11:34:29 2010

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:51 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.11 | 252  | 137550   | 51.04 | ug/ml | 99     |
| 74) Benz(a)anthracene          | 21.10 | 228  | 291900   | 48.16 | ug/ml | 99     |
| 75) Chrysene                   | 21.18 | 228  | 284334   | 48.46 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 260935   | 46.74 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.77 | 149  | 515396   | 44.95 | ug/ml | 97     |
| 79) Benzo(b)fluoranthene       | 23.45 | 252  | 306778   | 45.75 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.52 | 252  | 335944   | 48.27 | ug/ml | 98     |
| 81) Benzo(a)pyrene             | 24.18 | 252  | 256282   | 46.01 | ug/ml | 98     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.75 | 276  | 223531   | 46.34 | ug/ml | 98     |
| 83) Dibenz(a,h)anthracene      | 26.83 | 278  | 231956   | 45.15 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.32 | 276  | 242092   | 46.50 | ug/ml | 99     |

*LB*  
*4/10*

*6-3-10*







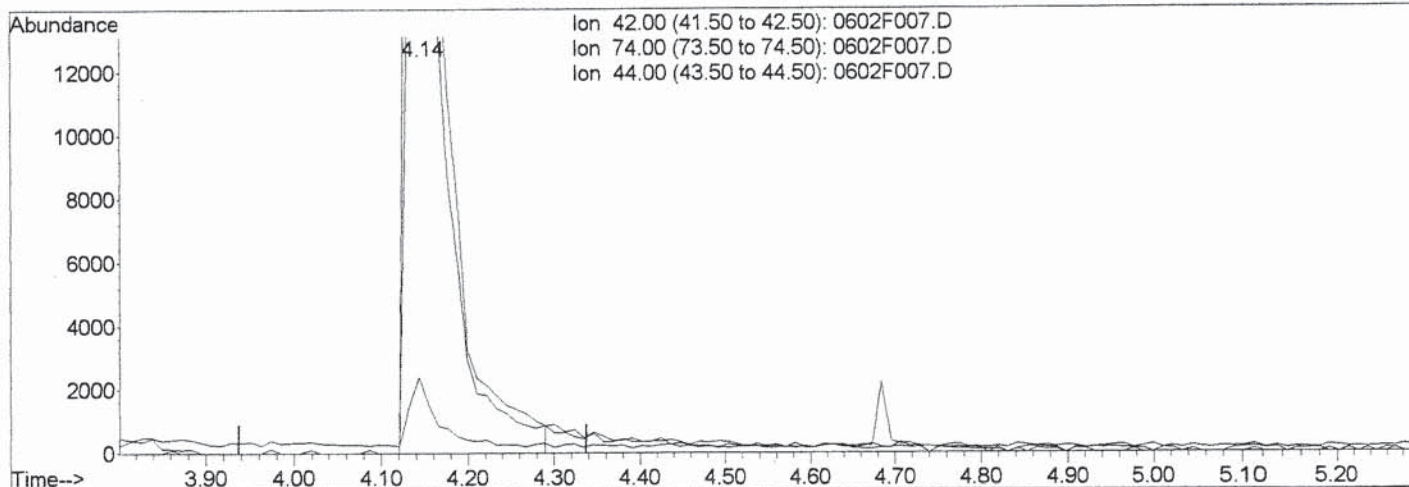
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

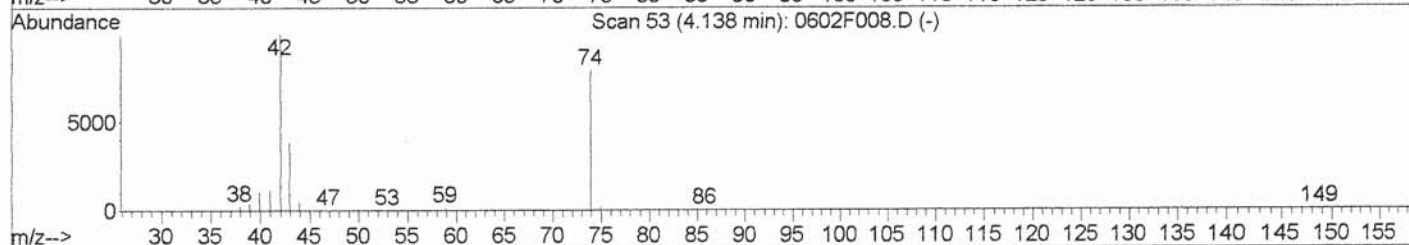
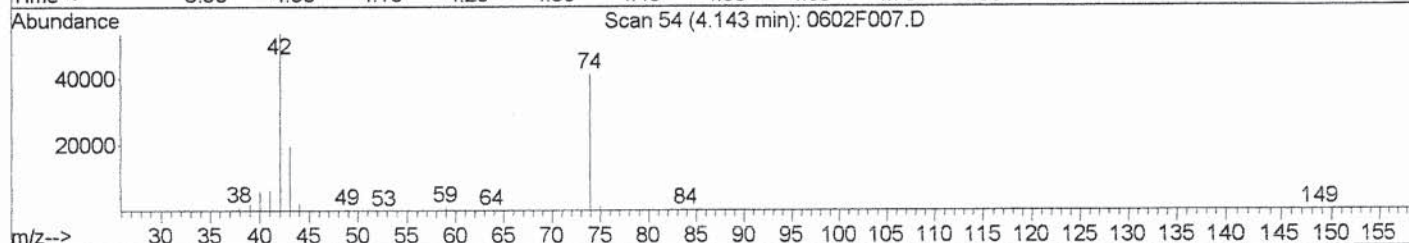
Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



Ion 42.00 (41.50 to 42.50): 0602F007.D  
 Ion 74.00 (73.50 to 74.50): 0602F007.D  
 Ion 44.00 (43.50 to 44.50): 0602F007.D



TIC: 0602F007.D

(2) N-Nitrosodimethylamine (T)

4.14min 42.61ug/ml

response 110997

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 76.71 |
| 44.00 | 4.40  | 3.96  |
| 0.00  | 0.00  | 0.00  |

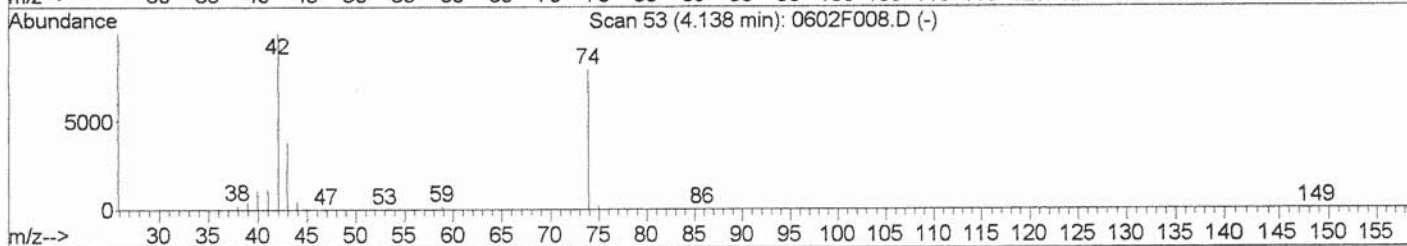
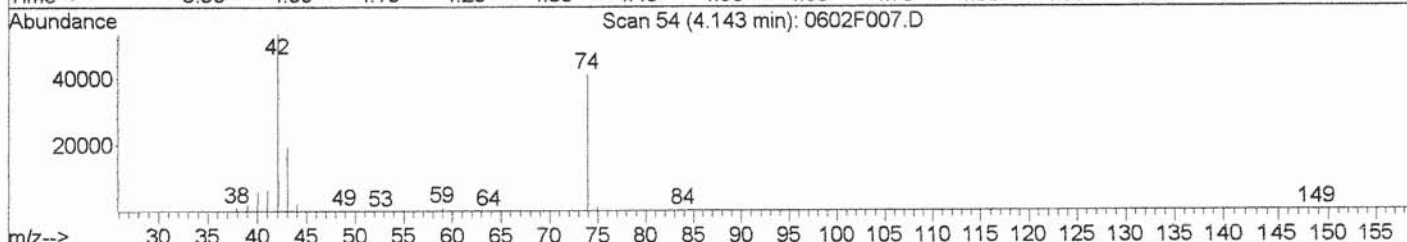
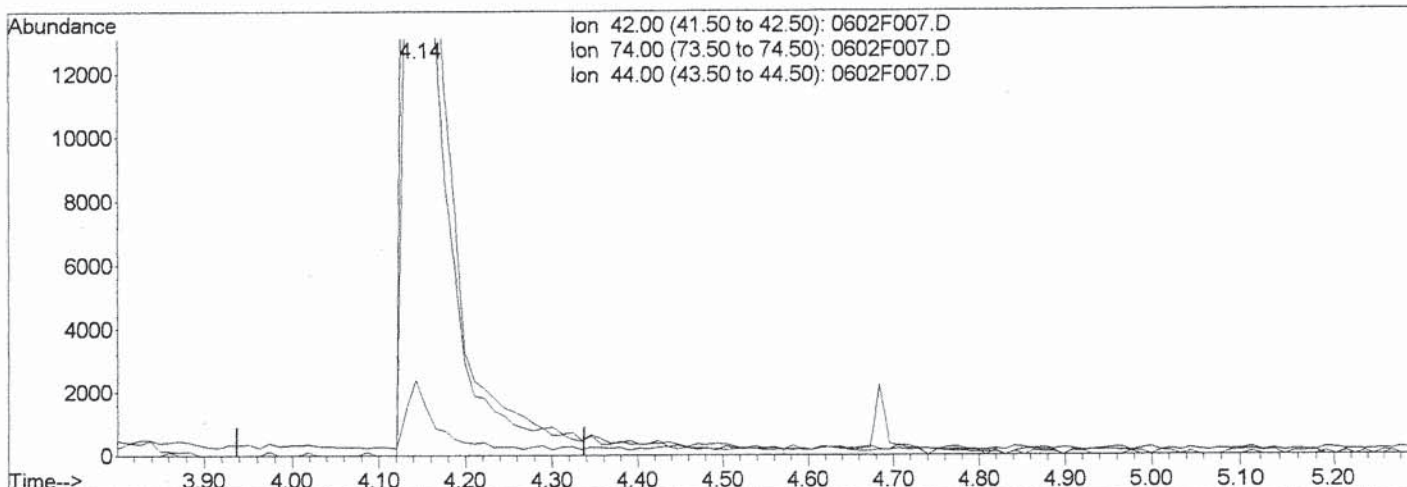
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:54 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F007.D

(2) N-Nitrosodimethylamine (T)

4.14min 45.19ug/ml m

response 117711

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 76.90 |
| 44.00 | 4.40  | 4.45  |
| 0.00  | 0.00  | 0.00  |

*50 μg 6-3-10*

*LB*  
*4/11/10*

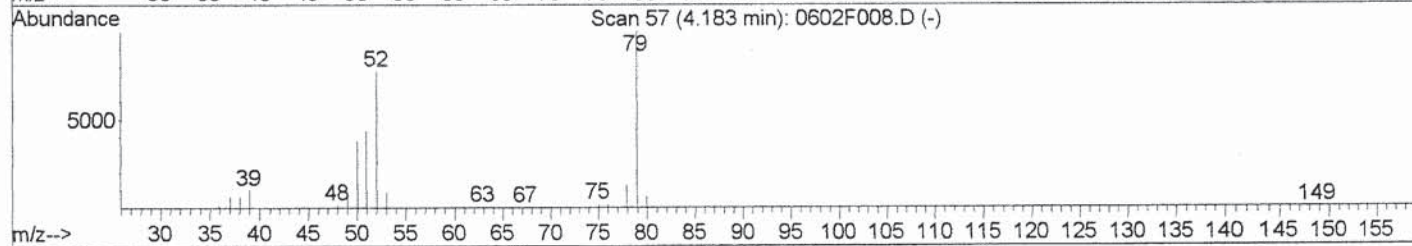
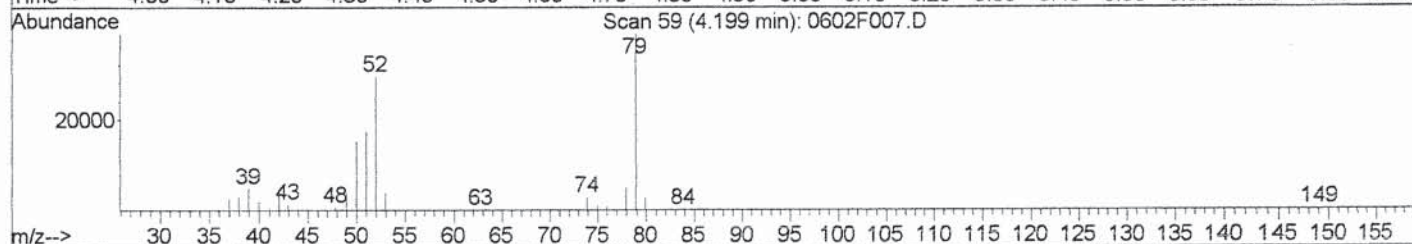
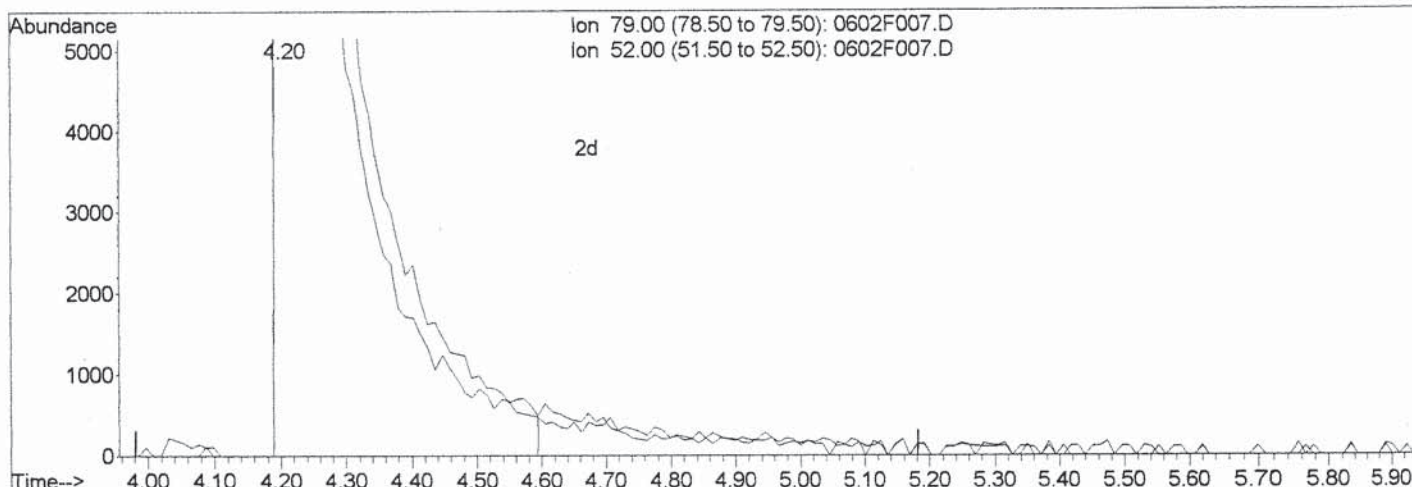
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:54 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F007.D

|                  |            |       |
|------------------|------------|-------|
| (3) Pyridine (T) |            |       |
| 4.20min          | 41.69ug/ml |       |
| response         | 153876     |       |
| Ion              | Exp%       | Act%  |
| 79.00            | 100        | 100   |
| 52.00            | 77.00      | 75.69 |
| 0.00             | 0.00       | 0.00  |
| 0.00             | 0.00       | 0.00  |



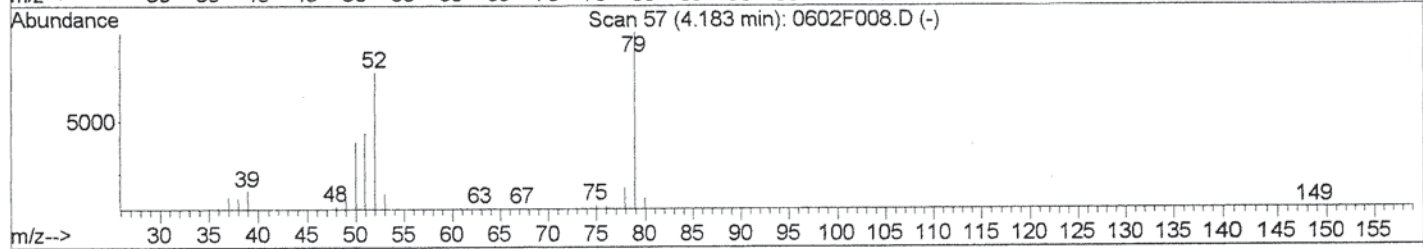
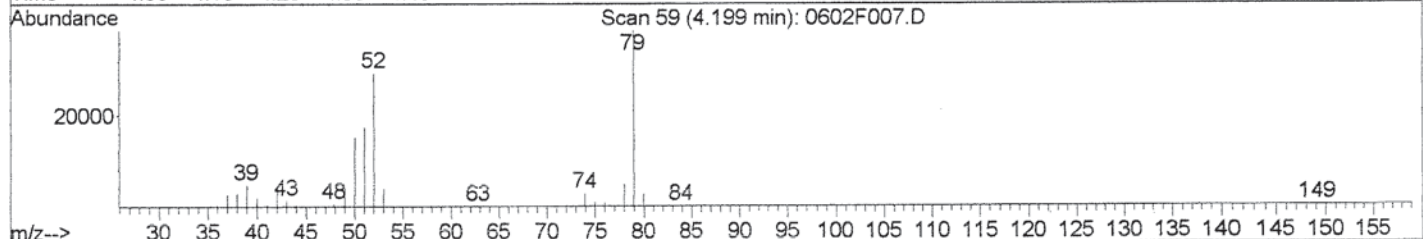
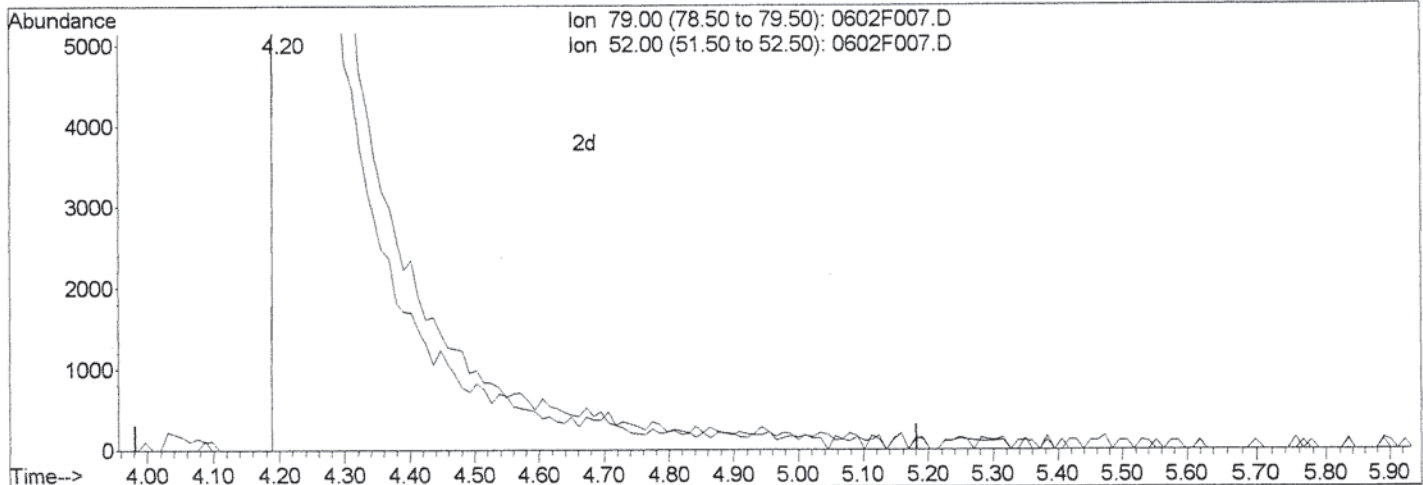
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:54 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F007.D

(3) Pyridine (T)  
 4.20min 43.77ug/ml m  
 response 161541

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 75.82 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten:* 5C M 6-3-10

*Handwritten:* 4B  
414110

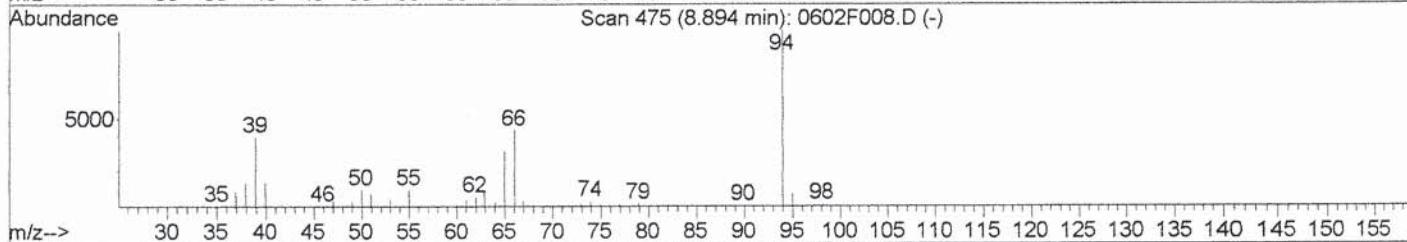
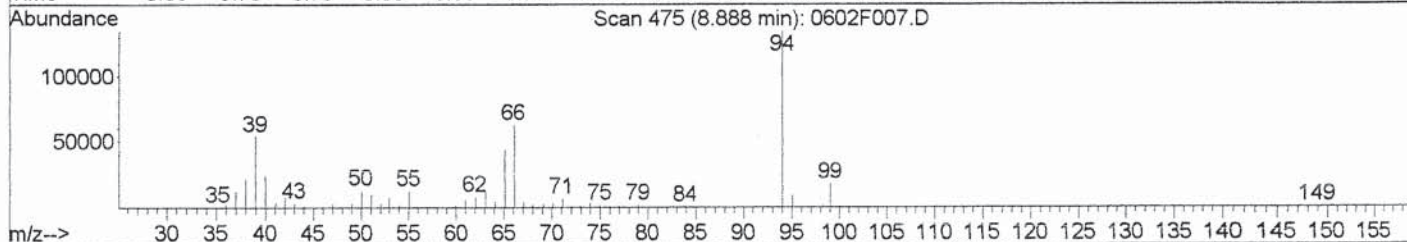
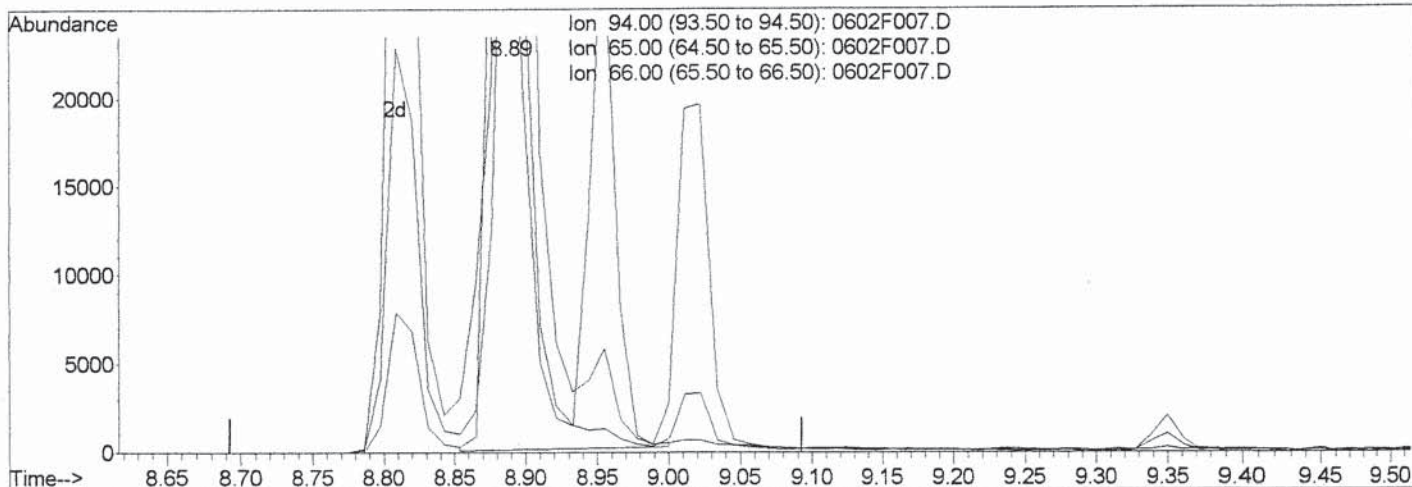
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F007.D  
 Acq On : 2 Jun 2010 7:19 pm  
 Sample : 50PPM 8270 ICAL SVM32-21F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:54 2010

Vial: 5  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F007.D

(8) Phenol (TMC)

8.89min 44.79ug/ml

response 186021

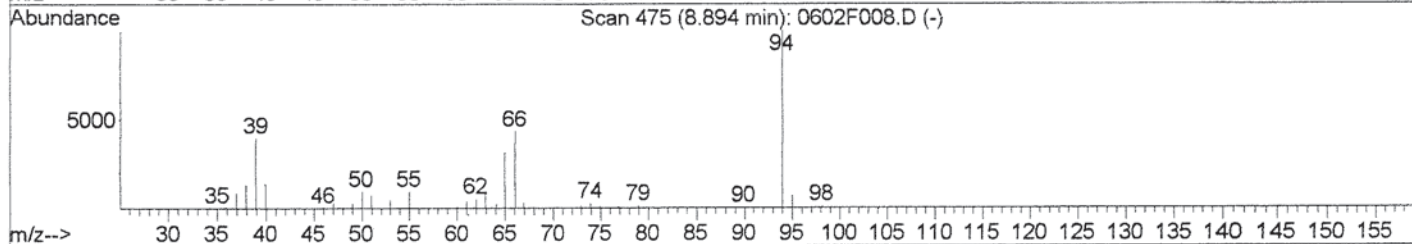
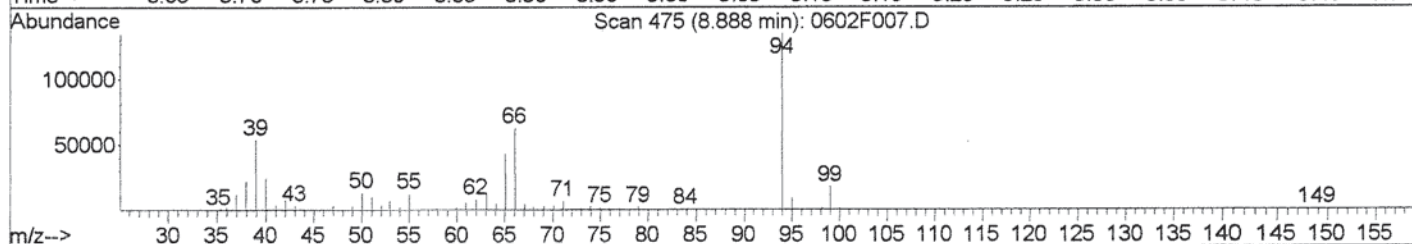
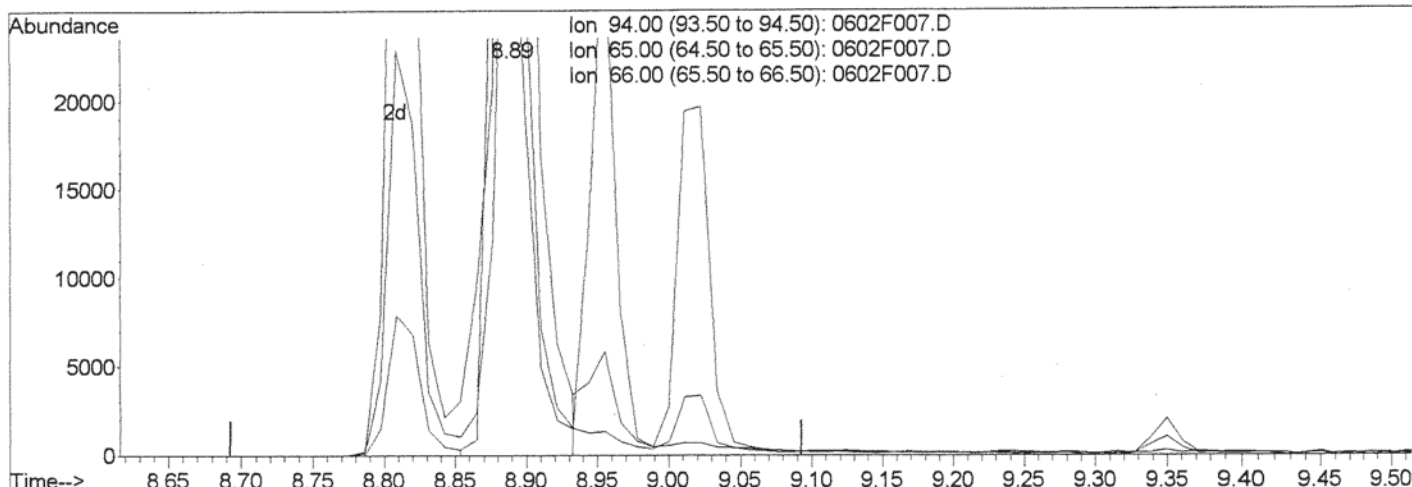
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 30.64 |
| 66.00 | 44.30 | 45.15 |
| 0.00  | 0.00  | 0.00  |

Data File : J:\MS07\DATA\060210\0602F007.D  
Acq On : 2 Jun 2010 7:19 pm  
Sample : 50PPM 8270 ICAL SVM32-21F  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:54 2010

Vial: 5  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 10:48:31 2010  
Response via : Multiple Level Calibration



TIC: 0602F007.D

| (8) Phenol (TMC) |            |       |
|------------------|------------|-------|
| 8.89min          | 43.03ug/ml | m     |
| response         | 178719     |       |
| Ion              | Exp%       | Act%  |
| 94.00            | 100        | 100   |
| 65.00            | 31.10      | 31.96 |
| 66.00            | 44.30      | 46.43 |
| 0.00             | 0.00       | 0.00  |

*OF*  
*7 6-7-10*

*LB*  
*4/11/10*



Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:52 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.34  | 152  | 103733   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 407774   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.30 | 164  | 224107   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 285196   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 279166   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.31 | 264  | 255637   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |                |     |            |        |       |      |
|--------------------------|----------------|-----|------------|--------|-------|------|
| 4) 2-Fluorophenol        | 7.14           | 112 | 223564     | 81.06  | ug/ml | 0.00 |
| Spiked Amount 150.000    | Range 21 - 100 |     | Recovery = | 54.04% |       |      |
| 7) Phenol-d6             | 8.87           | 99  | 315023     | 81.90  | ug/ml | 0.00 |
| Spiked Amount 150.000    | Range 10 - 94  |     | Recovery = | 54.60% |       |      |
| 19) Nitrobenzene-d5      | 10.29          | 82  | 311278     | 82.84  | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 35 - 114 |     | Recovery = | 82.84% |       |      |
| 38) 2-Fluorobiphenyl     | 13.24          | 172 | 557707     | 75.91  | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 43 - 116 |     | Recovery = | 75.91% |       |      |
| 59) 2,4,6-Tribromophenol | 15.60          | 330 | 102619     | 88.77  | ug/ml | 0.00 |
| Spiked Amount 150.000    | Range 10 - 123 |     | Recovery = | 59.18% |       |      |
| 71) Terphenyl-d14        | 19.33          | 244 | 332481     | 77.78  | ug/ml | 0.00 |
| Spiked Amount 100.000    | Range 33 - 141 |     | Recovery = | 77.78% |       |      |

Target Compounds

|                                |       |     |         |       |       | Qvalue |
|--------------------------------|-------|-----|---------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.14  | 42  | 197404m | 79.90 | ug/ml |        |
| 3) Pyridine                    | 4.18  | 79  | 304249m | 86.91 | ug/ml |        |
| 5) Aniline                     | 8.81  | 93  | 310686  | 79.91 | ug/ml | 100    |
| 6) Bis(2-chloroethyl) Ether    | 8.96  | 93  | 257472  | 81.32 | ug/ml | 100    |
| 8) Phenol                      | 8.89  | 94  | 318471  | 80.84 | ug/ml | 100    |
| 9) 2-Chlorophenol              | 9.02  | 128 | 278946  | 82.13 | ug/ml | 100    |
| 10) 1,3-Dichlorobenzene        | 9.24  | 146 | 289235  | 80.29 | ug/ml | 100    |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146 | 306571  | 83.56 | ug/ml | 100    |
| 12) 1,2-Dichlorobenzene        | 9.63  | 146 | 292772  | 84.30 | ug/ml | 100    |
| 13) Benzyl Alcohol             | 9.65  | 108 | 173852  | 83.34 | ug/ml | 100    |
| 14) Bis(2-chloroisopropyl) Eth | 9.86  | 45  | 416792  | 80.09 | ug/ml | 100    |
| 15) 2-Methylphenol             | 9.87  | 107 | 215850  | 84.63 | ug/ml | 100    |
| 16) Hexachloroethane           | 10.18 | 117 | 143551  | 85.99 | ug/ml | 100    |
| 17) N-Nitrosodi-n-propylamine  | 10.10 | 70  | 220097  | 84.93 | ug/ml | 100    |
| 18) 4-Methylphenol             | 10.14 | 107 | 338574  | 87.41 | ug/ml | 100    |
| 20) Nitrobenzene               | 10.32 | 77  | 290608  | 83.67 | ug/ml | 100    |
| 22) Isophorone                 | 10.74 | 82  | 619847  | 84.26 | ug/ml | 100    |
| 23) 2-Nitrophenol              | 10.84 | 139 | 167839  | 81.92 | ug/ml | 100    |
| 24) 2,4-Dimethylphenol         | 10.99 | 122 | 228884  | 84.45 | ug/ml | 100    |
| 25) Bis(2-chloroethoxy)methane | 11.12 | 93  | 335924  | 81.29 | ug/ml | 100    |

(#) = qualifier out of range (m) = manual integration  
 0602F008.D 0602BNC7.M Thu Jun 03 11:34:31 2010

*Handwritten:* M 6-3-10  
 LAB 10

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :

Vial: 6  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:52 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.27 | 162  | 247060   | 80.35 | ug/ml  | 100    |
| 27) Benzoic Acid               | 11.31 | 122  | 191801   | 82.58 | ug/ml  | 100    |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 273068   | 83.65 | ug/ml  | 100    |
| 29) Naphthalene                | 11.49 | 128  | 799136   | 81.68 | ug/ml  | 100    |
| 30) 4-Chloroaniline            | 11.62 | 127  | 343208   | 79.52 | ug/ml  | 100    |
| 31) Hexachlorobutadiene        | 11.71 | 225  | 177888   | 85.90 | ug/ml  | 100    |
| 32) 4-Chloro-3-methylphenol    | 12.47 | 107  | 281018   | 87.56 | ug/ml# | 53     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 521205   | 83.72 | ug/ml  | 100    |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 173516   | 75.23 | ug/ml  | 100    |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 185191   | 80.10 | ug/ml  | 100    |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 201418   | 78.18 | ug/ml  | 100    |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 530083   | 81.78 | ug/ml  | 100    |
| 40) 2-Nitroaniline             | 13.62 | 65   | 174420   | 83.65 | ug/ml  | 100    |
| 41) Acenaphthylene             | 14.08 | 152  | 800909   | 80.21 | ug/ml  | 100    |
| 42) Dimethyl Phthalate         | 13.94 | 163  | 601760   | 78.99 | ug/ml  | 100    |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 143013   | 82.83 | ug/ml  | 100    |
| 44) Acenaphthene               | 14.36 | 154  | 453532   | 79.59 | ug/ml  | 100    |
| 45) 3-Nitroaniline             | 14.29 | 138  | 152245   | 83.81 | ug/ml  | 100    |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 85734    | 85.58 | ug/ml  | 100    |
| 47) Dibenzofuran               | 14.65 | 168  | 743626   | 82.76 | ug/ml  | 100    |
| 48) 4-Nitrophenol              | 14.65 | 109  | 83574    | 84.97 | ug/ml  | 100    |
| 49) 2,4-Dinitrotoluene         | 14.67 | 165  | 179522   | 82.05 | ug/ml  | 100    |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.88 | 232  | 160056   | 85.21 | ug/ml  | 100    |
| 51) Fluorene                   | 15.20 | 166  | 540443   | 80.27 | ug/ml  | 100    |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 284971   | 82.67 | ug/ml  | 100    |
| 53) Diethyl Phthalate          | 15.09 | 149  | 630375   | 85.59 | ug/ml  | 100    |
| 54) 4-Nitroaniline             | 15.29 | 138  | 128806   | 81.92 | ug/ml  | 100    |
| 55) 2-Methyl-4,6-dinitrophenol | 15.33 | 198  | 102961   | 86.52 | ug/ml  | 100    |
| 56) N-Nitrosodiphenylamine     | 15.43 | 169  | 353714   | 78.79 | ug/ml  | 100    |
| 57) 1,2-Diphenylhydrazine      | 15.49 | 77   | 629514   | 82.49 | ug/ml  | 100    |
| 60) 4-Bromophenyl Phenyl Ether | 16.02 | 248  | 152517   | 88.70 | ug/ml  | 100    |
| 61) Hexachlorobenzene          | 16.08 | 284  | 174819   | 87.72 | ug/ml  | 100    |
| 62) Pentachlorophenol          | 16.43 | 266  | 97469    | 87.03 | ug/ml  | 100    |
| 63) Phenanthrene               | 16.75 | 178  | 653153   | 86.20 | ug/ml  | 100    |
| 64) Anthracene                 | 16.83 | 178  | 693023   | 87.00 | ug/ml  | 100    |
| 65) Carbazole                  | 17.12 | 167  | 559783   | 86.08 | ug/ml  | 100    |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 758593   | 87.45 | ug/ml  | 100    |
| 67) Fluoranthene               | 18.66 | 202  | 552331   | 80.30 | ug/ml  | 100    |
| 69) Benzidine                  | 18.92 | 184  | 185568   | 79.16 | ug/ml  | 100    |
| 70) Pyrene                     | 19.02 | 202  | 575978   | 77.30 | ug/ml  | 100    |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 361324   | 85.09 | ug/ml  | 100    |

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

0602F008.D 0602BNC7.M Thu Jun 03 11:34:31 2010

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:52 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 259524   | 88.96 | ug/ml | 100    |
| 74) Benz(a)anthracene          | 21.11 | 228  | 571803   | 87.15 | ug/ml | 100    |
| 75) Chrysene                   | 21.19 | 228  | 534824   | 84.20 | ug/ml | 100    |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 500131   | 82.76 | ug/ml | 100    |
| 78) Di-n-octyl Phthalate       | 22.78 | 149  | 927272   | 82.35 | ug/ml | 100    |
| 79) Benzo(b)fluoranthene       | 23.45 | 252  | 531245   | 80.67 | ug/ml | 100    |
| 80) Benzo(k)fluoranthene       | 23.52 | 252  | 555690   | 81.31 | ug/ml | 100    |
| 81) Benzo(a)pyrene             | 24.19 | 252  | 445333   | 81.42 | ug/ml | 100    |
| 82) Indeno(1,2,3-cd)pyrene     | 26.77 | 276  | 387546   | 81.82 | ug/ml | 100    |
| 83) Dibenz(a,h)anthracene      | 26.85 | 278  | 415299   | 82.31 | ug/ml | 100    |
| 84) Benzo(g,h,i)perylene       | 27.34 | 276  | 397579   | 77.76 | ug/ml | 100    |

LB  
 6/4/10

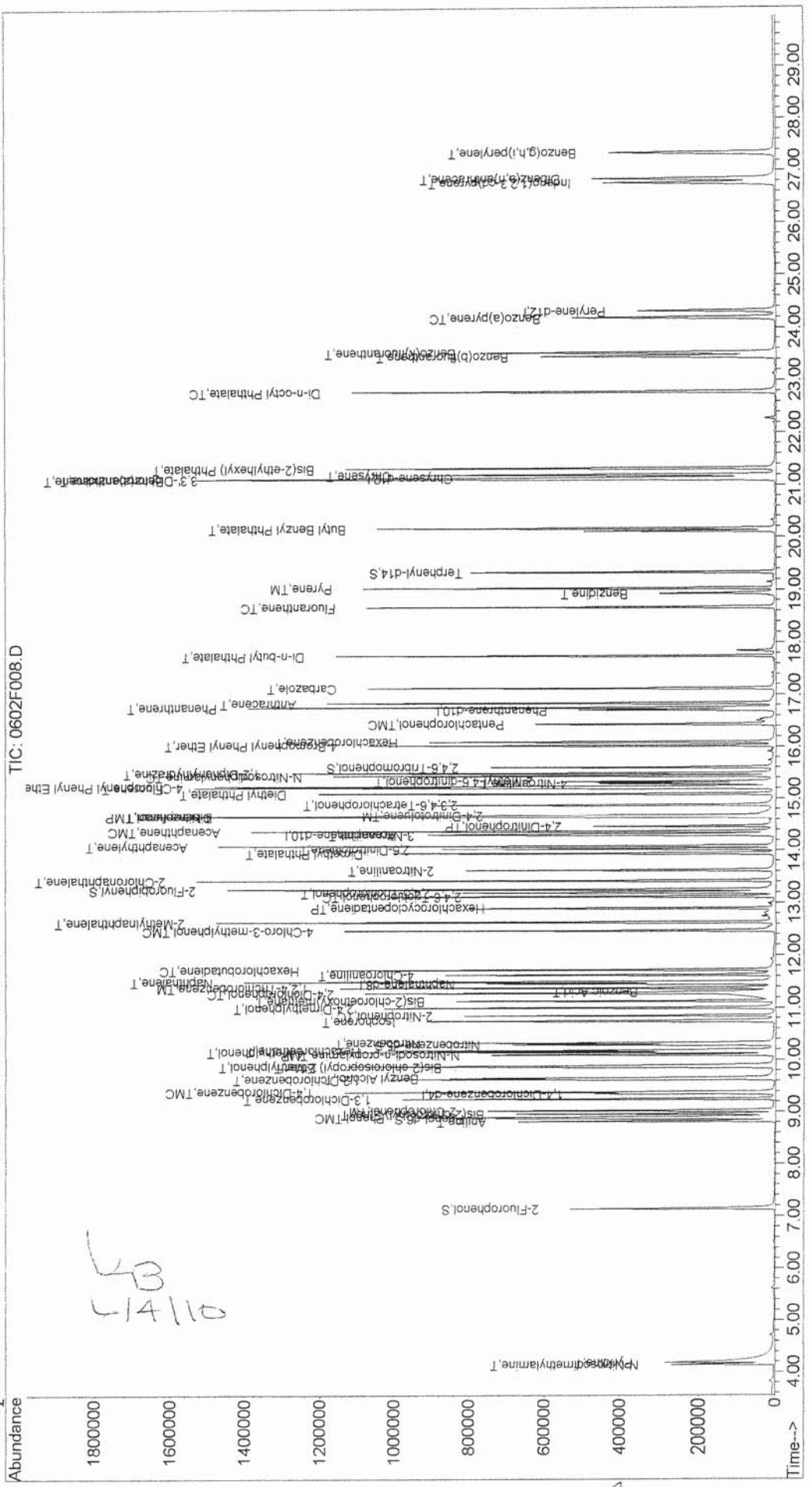
6-7-10



Data File : J:\MS07\DATA\060210\0602F008.D  
Acq On : 2 Jun 2010 7:59 pm  
Sample : 80PPM 8270 ICAL SVM32-21G  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:55 2010

Vial: 6  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00  
Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx\_5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



6-3-10

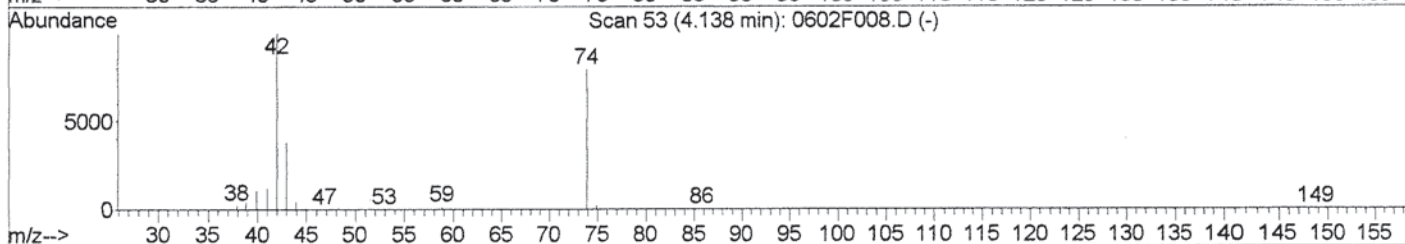
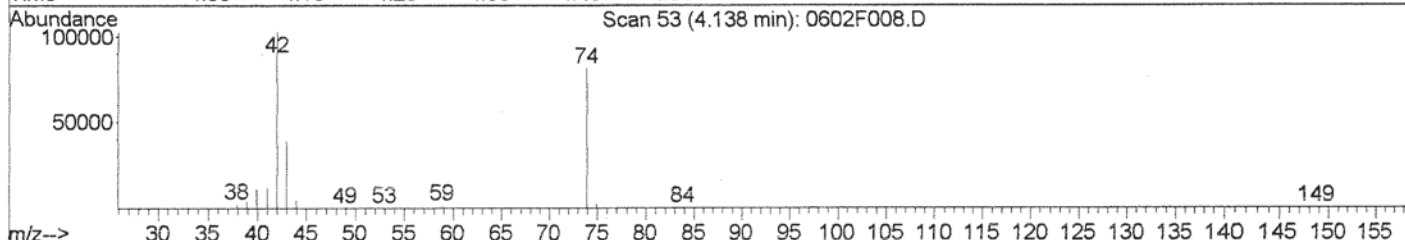
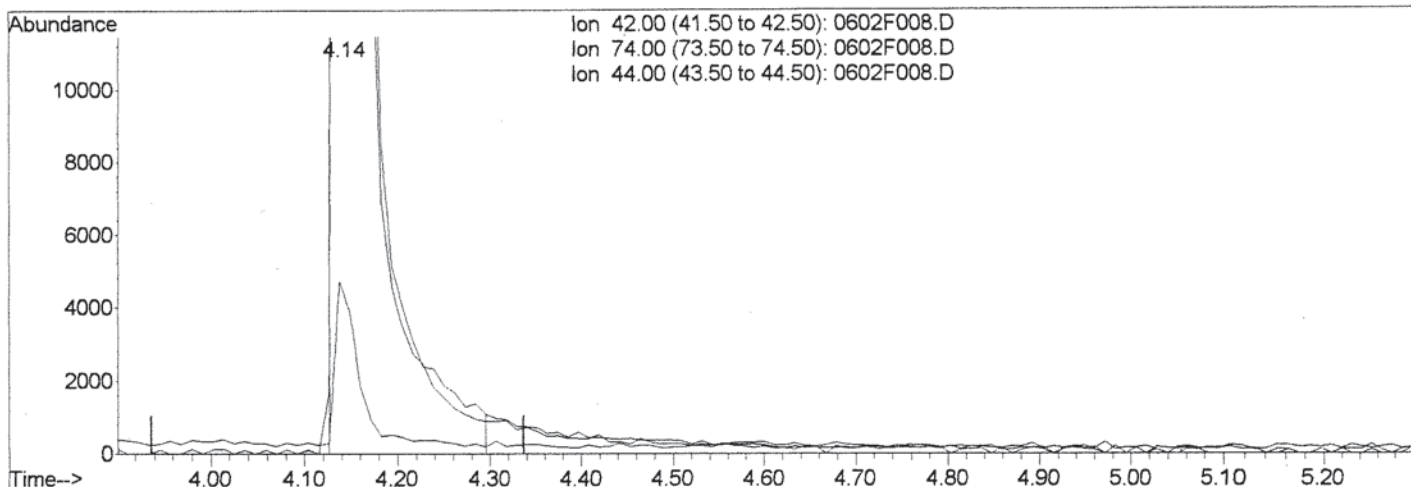
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F008.D

(2) N-Nitrosodimethylamine (T)

4.14min 76.14ug/ml

response 188109

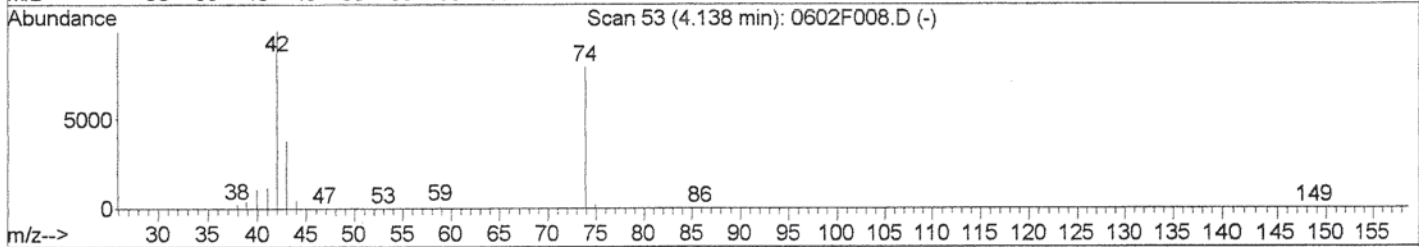
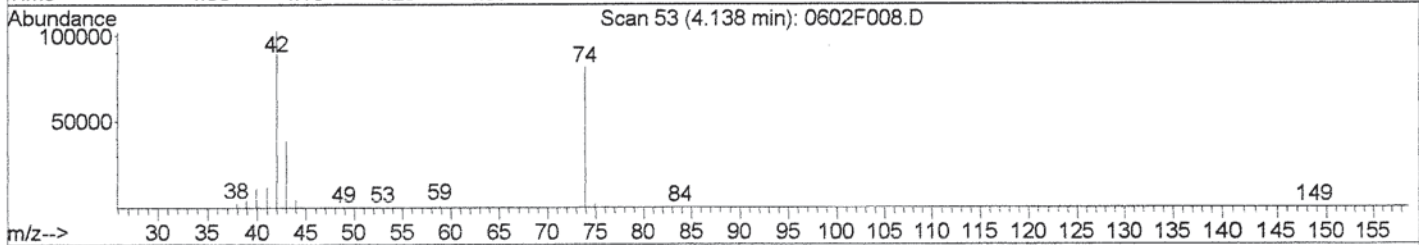
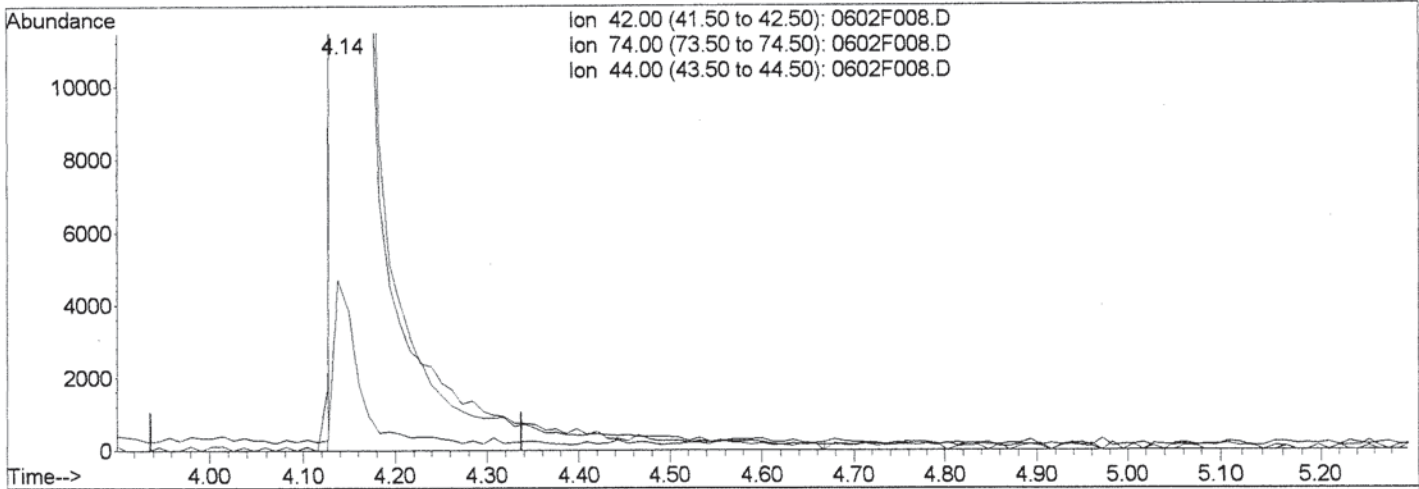
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 79.28 |
| 44.00 | 4.40  | 4.41  |
| 0.00  | 0.00  | 0.00  |

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:55 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F008.D

(2) N-Nitrosodimethylamine (T)

4.14min 79.90ug/ml m

response 197404

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 79.29 |
| 44.00 | 4.40  | 4.59  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-3-10*

*LB*  
*4/4/10*



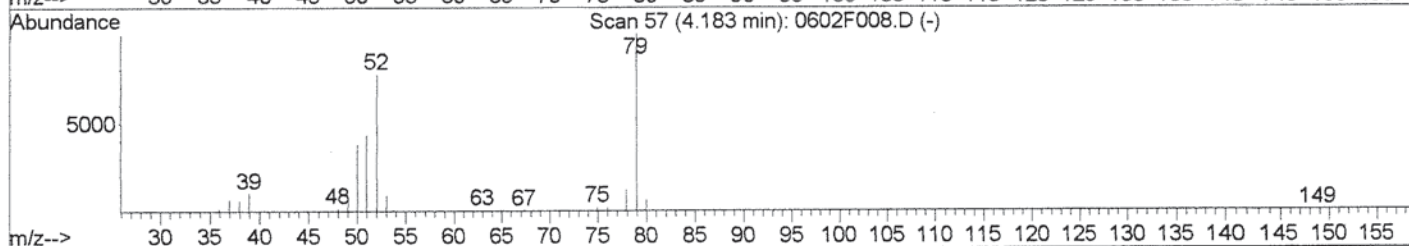
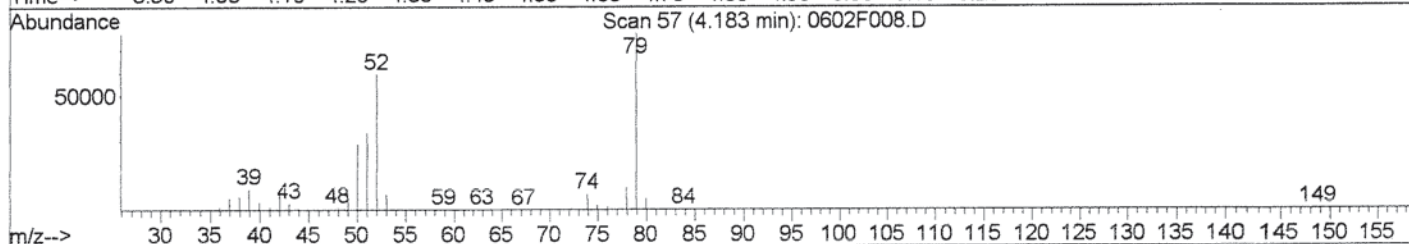
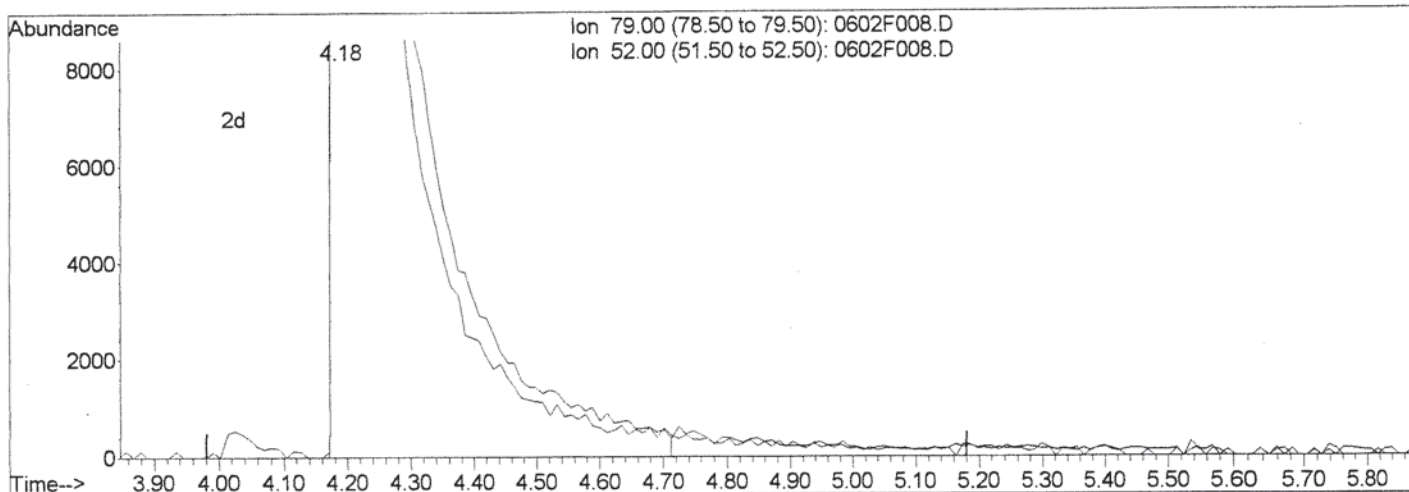
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:55 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F008.D

(3) Pyridine (T)

4.18min 84.92ug/ml

response 297300

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 77.02 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

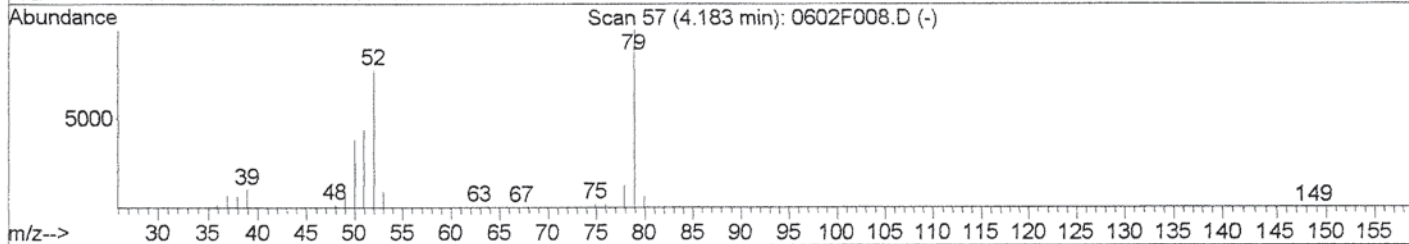
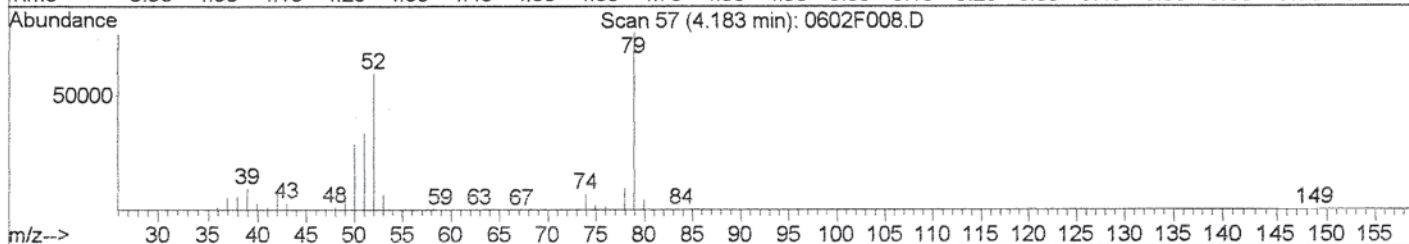
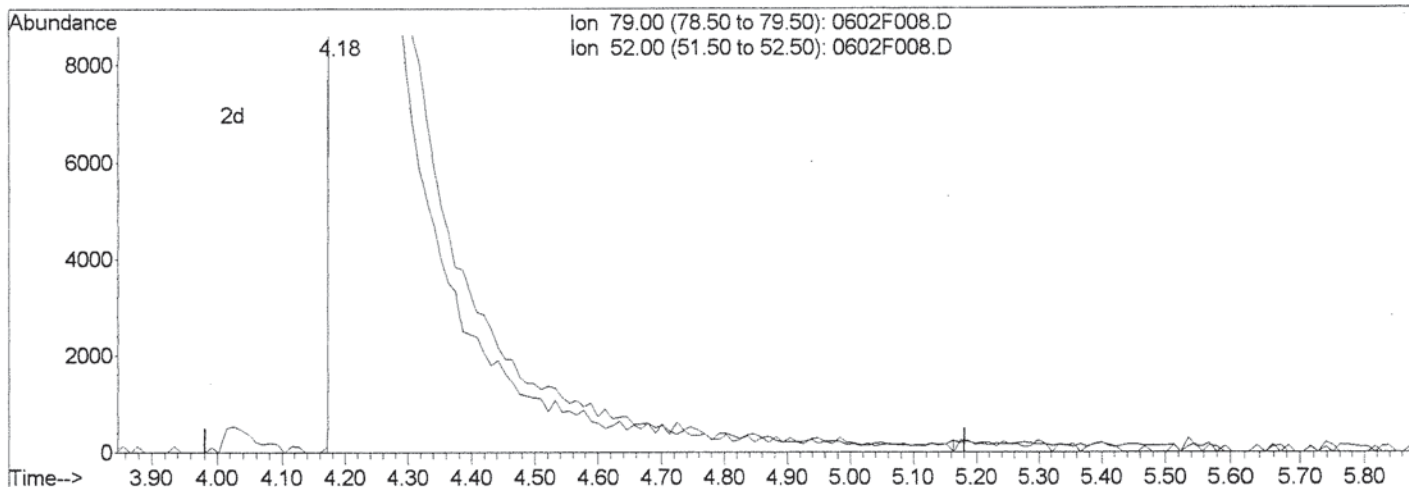
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F008.D  
 Acq On : 2 Jun 2010 7:59 pm  
 Sample : 80PPM 8270 ICAL SVM32-21G  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:55 2010

Vial: 6  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F008.D

(3) Pyridine (T)

4.18min 86.91ug/ml m

response 304249

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 77.12 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*763-10*

*LB*  
*414110*

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:53 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 116346   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.46 | 136  | 477905   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 217694   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.71 | 188  | 271937   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.14 | 240  | 311055   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.32 | 264  | 253663   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |       |          |          |       |         |
|--------------------------|---------|-------|----------|----------|-------|---------|
| 4) 2-Fluorophenol        | 7.14    | 112   | 334191   | 108.04   | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 72.03%  |
| 7) Phenol-d6             | 8.88    | 99    | 464659   | 107.71   | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 71.81%  |
| 19) Nitrobenzene-d5      | 10.30   | 82    | 449580   | 106.68   | ug/ml | 0.00    |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 106.68% |
| 38) 2-Fluorobiphenyl     | 13.25   | 172   | 799895   | 112.08   | ug/ml | 0.00    |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 112.08% |
| 59) 2,4,6-Tribromophenol | 15.61   | 330   | 117775   | 106.85   | ug/ml | 0.00    |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 71.23%  |
| 71) Terphenyl-d14        | 19.32   | 244   | 438362   | 92.04    | ug/ml | 0.00    |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 92.04%  |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.14  | 42   | 295565m  | 106.66 | ug/ml |        |
| 3) Pyridine                    | 4.19  | 79   | 408054m  | 103.92 | ug/ml |        |
| 5) Aniline                     | 8.82  | 93   | 450153   | 103.24 | ug/ml | 99     |
| 6) Bis(2-chloroethyl) Ether    | 8.97  | 93   | 374058   | 105.33 | ug/ml | 99     |
| 8) Phenol                      | 8.90  | 94   | 474690m  | 107.43 | ug/ml |        |
| 9) 2-Chlorophenol              | 9.02  | 128  | 416236   | 109.26 | ug/ml | 96     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146  | 416543   | 103.10 | ug/ml | 99     |
| 11) 1,4-Dichlorobenzene        | 9.39  | 146  | 418565   | 101.71 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146  | 395551   | 101.54 | ug/ml | 97     |
| 13) Benzyl Alcohol             | 9.66  | 108  | 245296   | 104.84 | ug/ml | 96     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45   | 628031   | 107.60 | ug/ml | 91     |
| 15) 2-Methylphenol             | 9.88  | 107  | 296022   | 103.48 | ug/ml | 94     |
| 16) Hexachloroethane           | 10.19 | 117  | 203365   | 108.62 | ug/ml | 82     |
| 17) N-Nitrosodi-n-propylamine  | 10.11 | 70   | 318086   | 109.44 | ug/ml | 98     |
| 18) 4-Methylphenol             | 10.15 | 107  | 472826   | 108.83 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.33 | 77   | 423986   | 108.84 | ug/ml | 99     |
| 22) Isophorone                 | 10.75 | 82   | 813693   | 94.38  | ug/ml | 99     |
| 23) 2-Nitrophenol              | 10.85 | 139  | 227468   | 94.74  | ug/ml | 94     |
| 24) 2,4-Dimethylphenol         | 11.00 | 122  | 323457   | 101.83 | ug/ml | 99     |
| 25) Bis(2-chloroethoxy)methane | 11.13 | 93   | 490181   | 101.21 | ug/ml | 99     |

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

*Handwritten:* LAB, 6-3-10



Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:53 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit   | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.28 | 162  | 351125   | 97.44  | ug/ml  | 97     |
| 27) Benzoic Acid               | 11.33 | 122  | 265560   | 97.55  | ug/ml  | 94     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 379744   | 99.26  | ug/ml  | 99     |
| 29) Naphthalene                | 11.49 | 128  | 1116954  | 97.41  | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 488552   | 96.58  | ug/ml  | 95     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 252177   | 103.90 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.47 | 107  | 357750   | 95.11  | ug/ml# | 59     |
| 33) 2-Methylnaphthalene        | 12.63 | 142  | 699410   | 95.86  | ug/ml  | 100    |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 253013   | 109.24 | ug/ml  | 99     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 244406   | 108.83 | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.18 | 196  | 273965   | 109.47 | ug/ml  | 96     |
| 39) 2-Chloronaphthalene        | 13.42 | 162  | 677924   | 107.68 | ug/ml  | 97     |
| 40) 2-Nitroaniline             | 13.62 | 65   | 198747   | 98.13  | ug/ml  | 89     |
| 41) Acenaphthylene             | 14.08 | 152  | 1029454  | 106.14 | ug/ml  | 98     |
| 42) Dimethyl Phthalate         | 13.94 | 163  | 712379   | 96.26  | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.03 | 165  | 169101   | 100.83 | ug/ml  | 86     |
| 44) Acenaphthene               | 14.37 | 154  | 552958   | 99.89  | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.30 | 138  | 170723   | 96.75  | ug/ml  | 97     |
| 46) 2,4-Dinitrophenol          | 14.47 | 184  | 102955   | 105.80 | ug/ml  | 88     |
| 47) Dibenzofuran               | 14.65 | 168  | 858485   | 98.36  | ug/ml  | 93     |
| 48) 4-Nitrophenol              | 14.65 | 109  | 97704    | 102.26 | ug/ml# | 89     |
| 49) 2,4-Dinitrotoluene         | 14.67 | 165  | 198493   | 93.39  | ug/ml  | 80     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 179206   | 98.21  | ug/ml# | 86     |
| 51) Fluorene                   | 15.20 | 166  | 640943   | 98.00  | ug/ml  | 96     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 319628   | 95.46  | ug/ml  | 92     |
| 53) Diethyl Phthalate          | 15.09 | 149  | 670573   | 93.73  | ug/ml  | 100    |
| 54) 4-Nitroaniline             | 15.29 | 138  | 151045   | 98.89  | ug/ml  | 96     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 114012   | 98.63  | ug/ml# | 61     |
| 56) N-Nitrosodiphenylamine     | 15.44 | 169  | 409398   | 93.88  | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.48 | 77   | 740388   | 99.87  | ug/ml  | 94     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 174388   | 106.37 | ug/ml  | 91     |
| 61) Hexachlorobenzene          | 16.09 | 284  | 201858   | 106.22 | ug/ml  | 91     |
| 62) Pentachlorophenol          | 16.43 | 266  | 107141   | 100.33 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.74 | 178  | 683180   | 94.56  | ug/ml  | 98     |
| 64) Anthracene                 | 16.83 | 178  | 782379   | 103.00 | ug/ml  | 100    |
| 65) Carbazole                  | 17.13 | 167  | 655012   | 105.63 | ug/ml  | 98     |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 867148   | 104.84 | ug/ml  | 100    |
| 67) Fluoranthene               | 18.67 | 202  | 708060   | 107.96 | ug/ml  | 98     |
| 69) Benzidine                  | 18.93 | 184  | 244370   | 93.56  | ug/ml  | 98     |
| 70) Pyrene                     | 19.03 | 202  | 750272   | 90.37  | ug/ml  | 100    |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 471978   | 99.76  | ug/ml  | 88     |

(#) = qualifier out of range (m) = manual integration  
 0602F009.D 0602BNC7.M Thu Jun 03 11:34:32 2010

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:53 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit  | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 334152   | 102.80 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.12 | 228  | 748559   | 102.40 | ug/ml | 100    |
| 75) Chrysene                   | 21.20 | 228  | 708399   | 100.09 | ug/ml | 100    |
| 76) Bis(2-ethylhexyl) Phthalat | 21.32 | 149  | 701443   | 104.18 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.78 | 149  | 1263346  | 113.08 | ug/ml | 99     |
| 79) Benzo(b)fluoranthene       | 23.46 | 252  | 704855m  | 107.87 | ug/ml |        |
| 80) Benzo(k)fluoranthene       | 23.53 | 252  | 721871m  | 106.45 | ug/ml |        |
| 81) Benzo(a)pyrene             | 24.19 | 252  | 554160   | 102.11 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.77 | 276  | 475821   | 101.23 | ug/ml | 99     |
| 83) Dibenz(a,h)anthracene      | 26.85 | 278  | 519620   | 103.79 | ug/ml | 100    |
| 84) Benzo(g,h,i)perylene       | 27.35 | 276  | 489833   | 96.55  | ug/ml | 97     |

*LB*  
*6/11/10*

(#) = qualifier out of range (m) = manual integration  
 0602F009.D 0602BNC7.M Thu Jun 03 11:34:32 2010

*5-3-10* Page 3





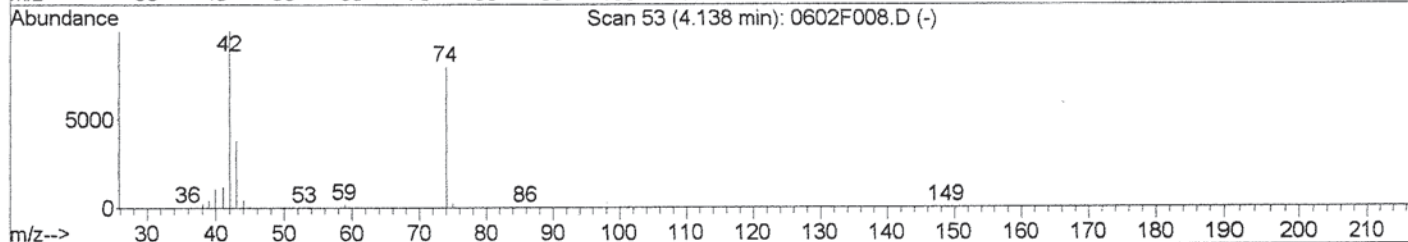
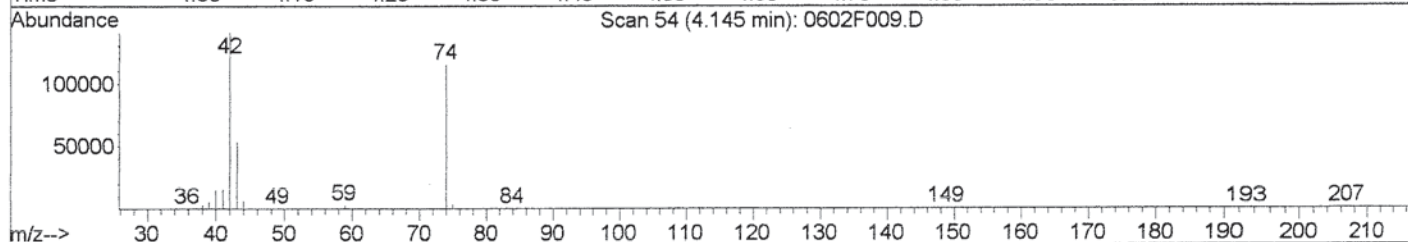
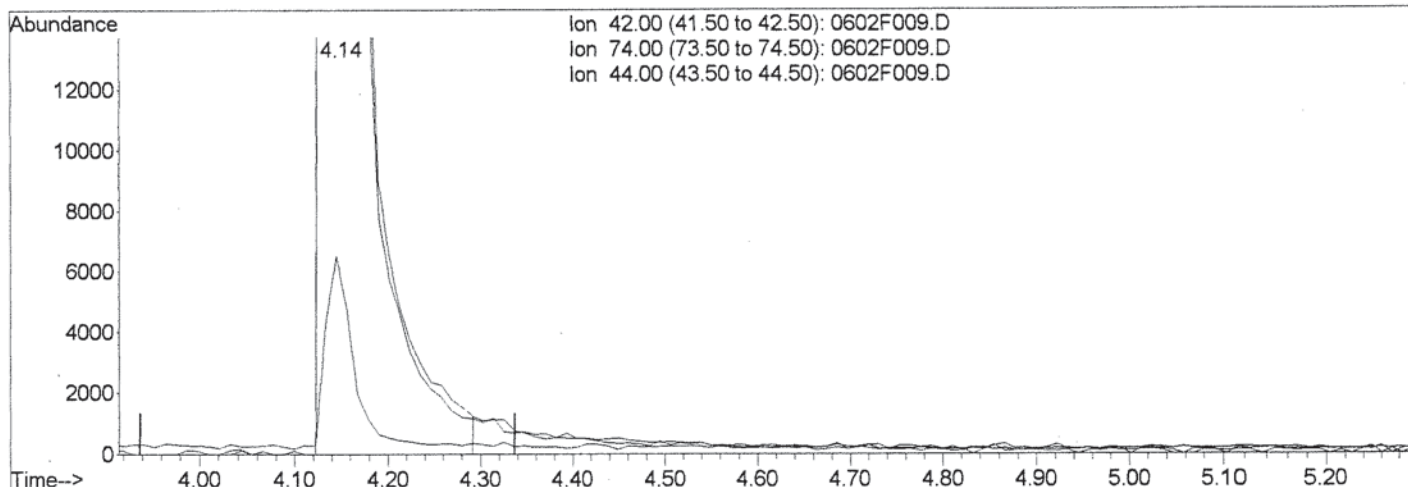


Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(2) N-Nitrosodimethylamine (T)

4.14min 102.89ug/ml

response 285108

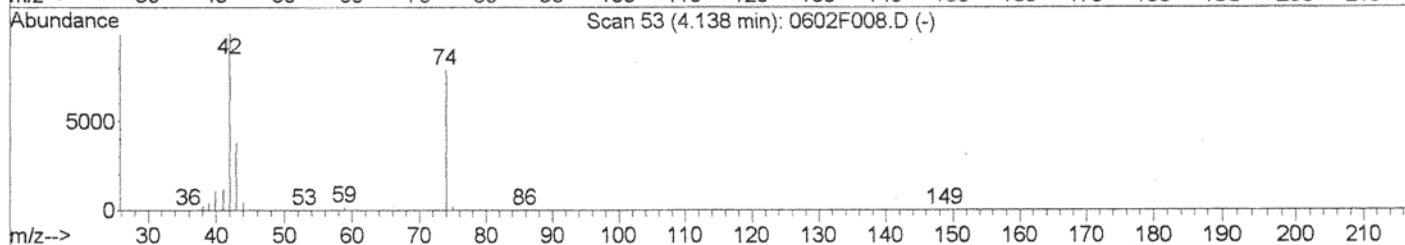
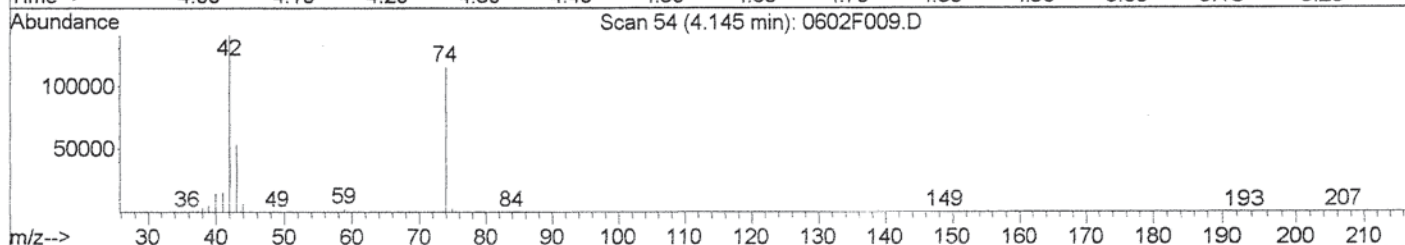
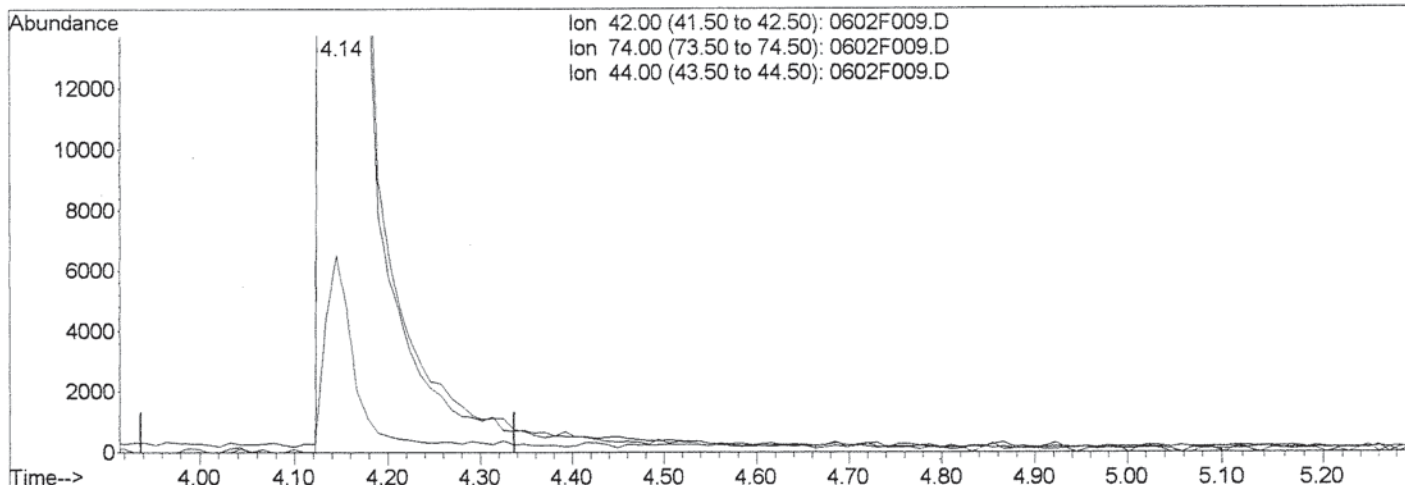
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 81.93 |
| 44.00 | 4.40  | 4.44  |
| 0.00  | 0.00  | 0.00  |

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(2) N-Nitrosodimethylamine (T)

4.14min 106.66ug/ml m  
 response 295565

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 81.98 |
| 44.00 | 4.40  | 4.64  |
| 0.00  | 0.00  | 0.00  |

LC  
M 6-3-10

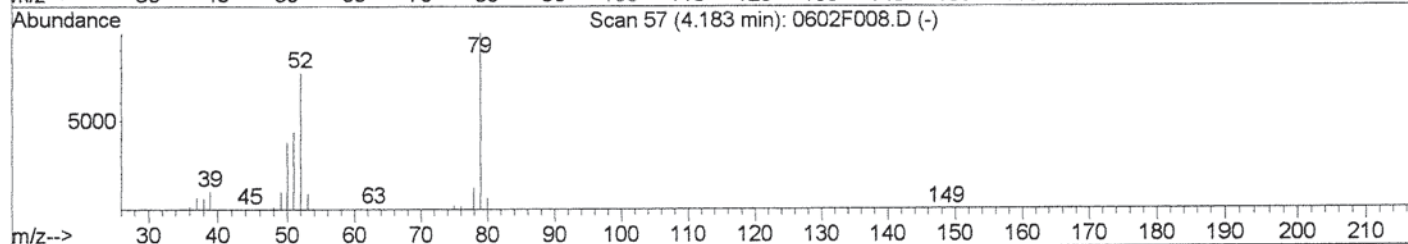
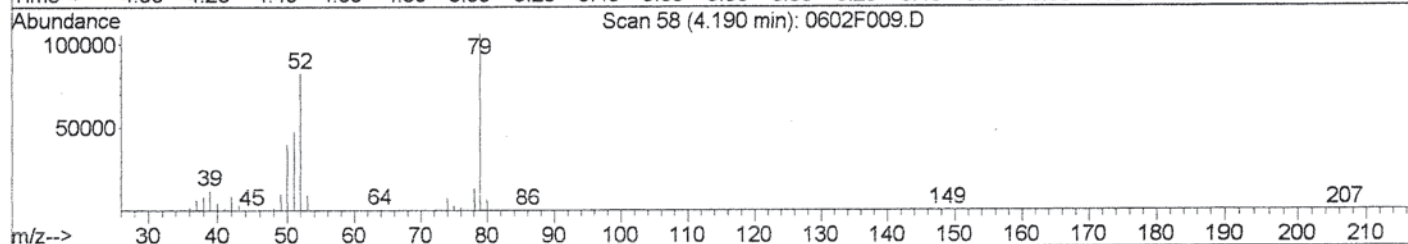
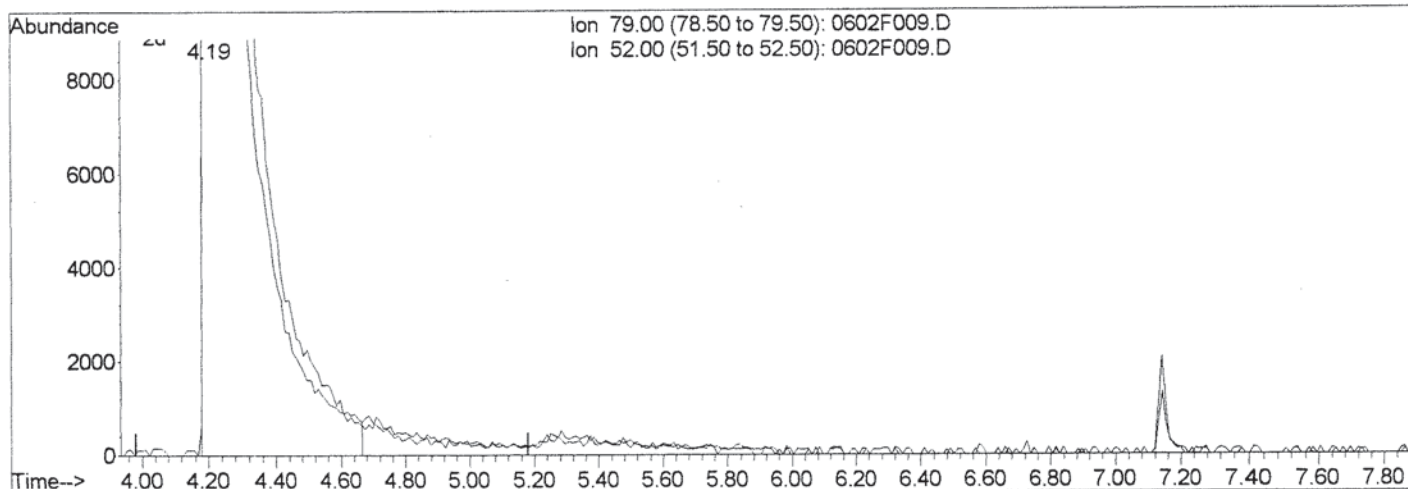
LB  
4/11/10

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(3) Pyridine (T)

4.19min 98.54ug/ml

response 386906

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 77.80 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |



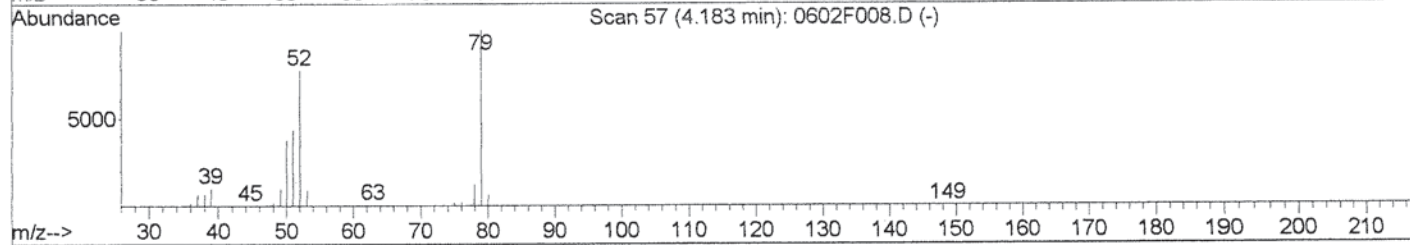
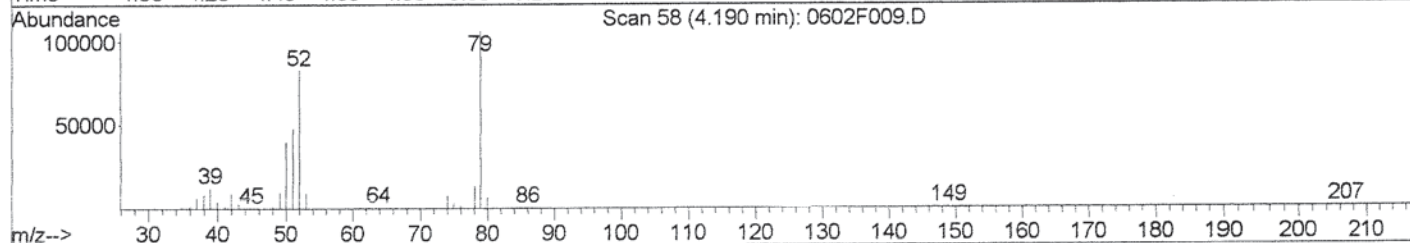
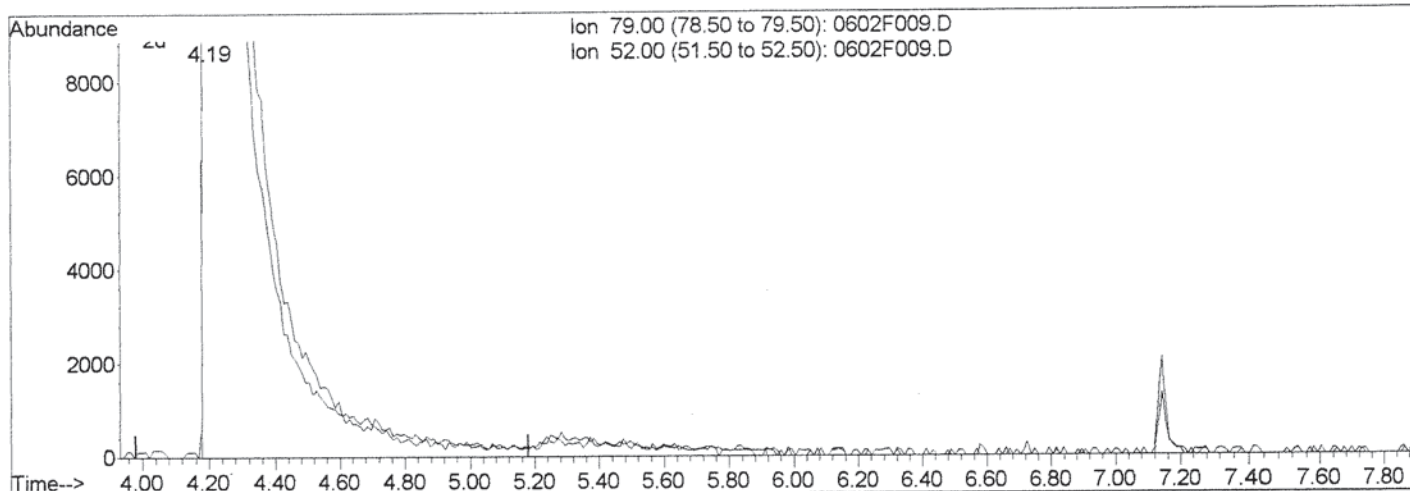
Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(3) Pyridine (T)

4.19min 103.92ug/ml m  
 response 408054

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 77.84 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*FC*  
*46-3-10*

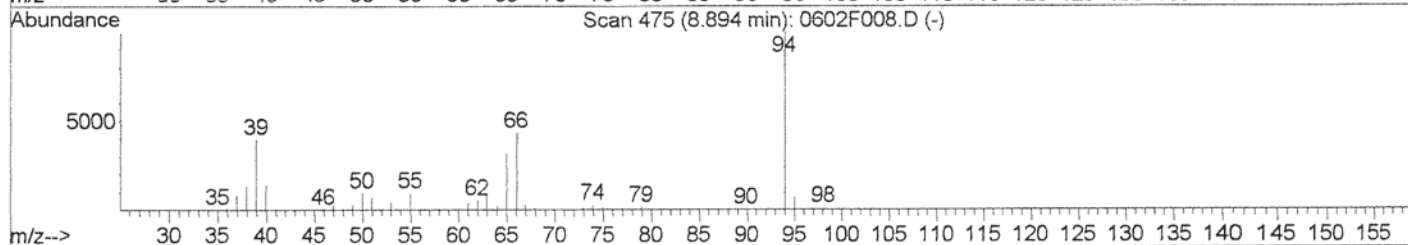
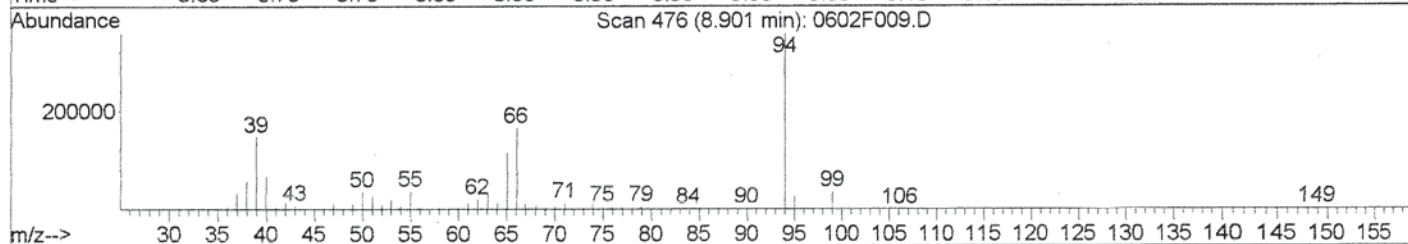
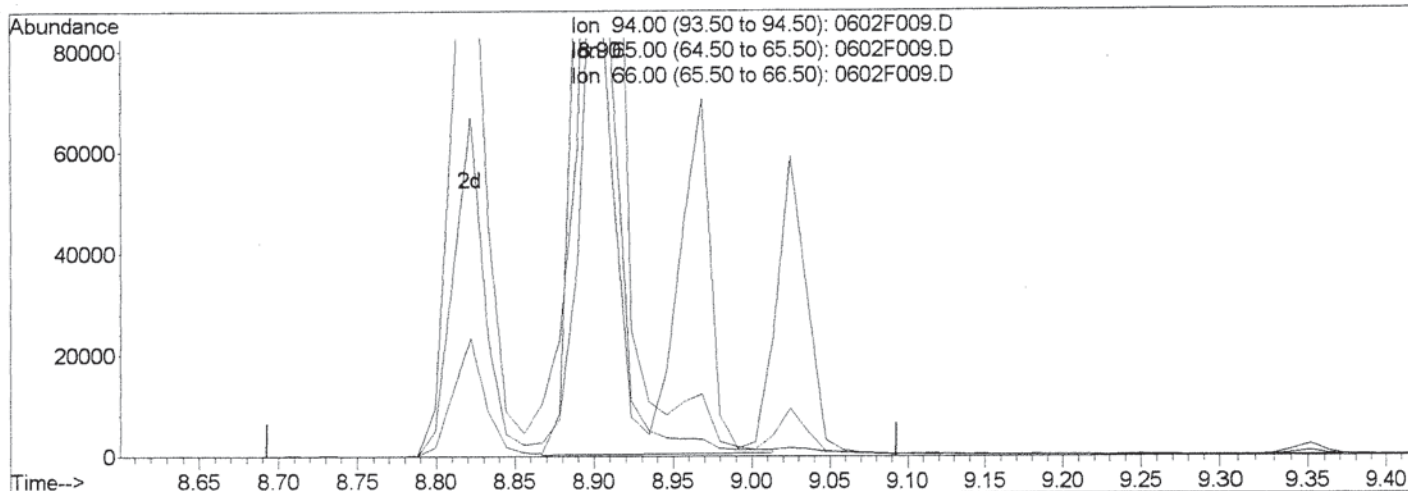
*LB*  
*6/11/10*

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

| (8) Phenol (TMC) |             |       |
|------------------|-------------|-------|
| 8.90min          | 111.16ug/ml |       |
| response         | 491149      |       |
| Ion              | Exp%        | Act%  |
| 94.00            | 100         | 100   |
| 65.00            | 31.10       | 28.91 |
| 66.00            | 44.30       | 44.26 |
| 0.00             | 0.00        | 0.00  |

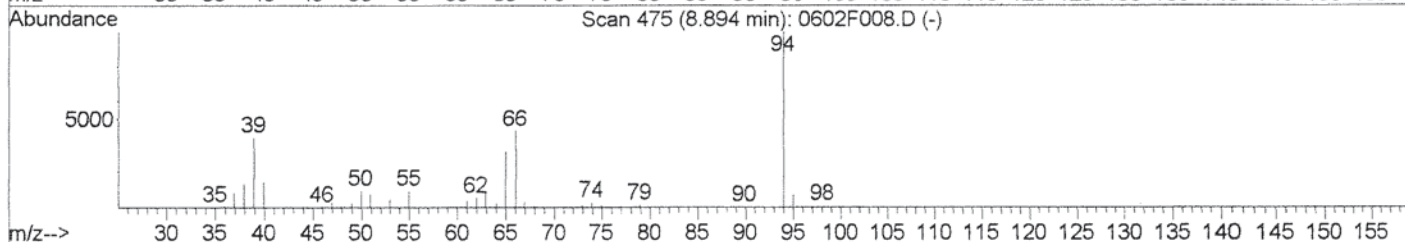
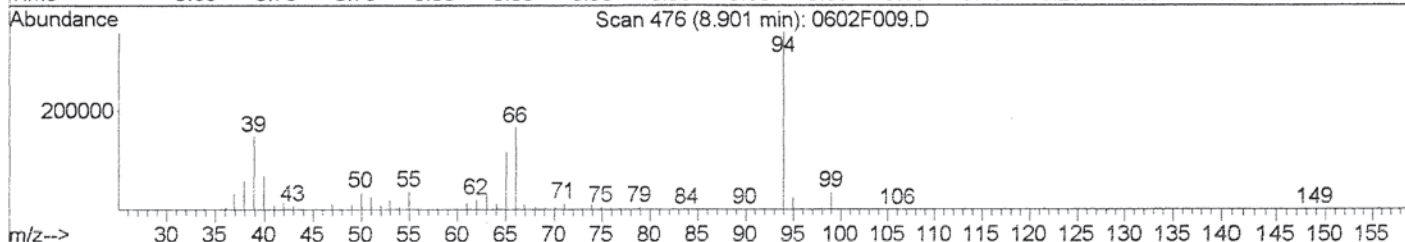
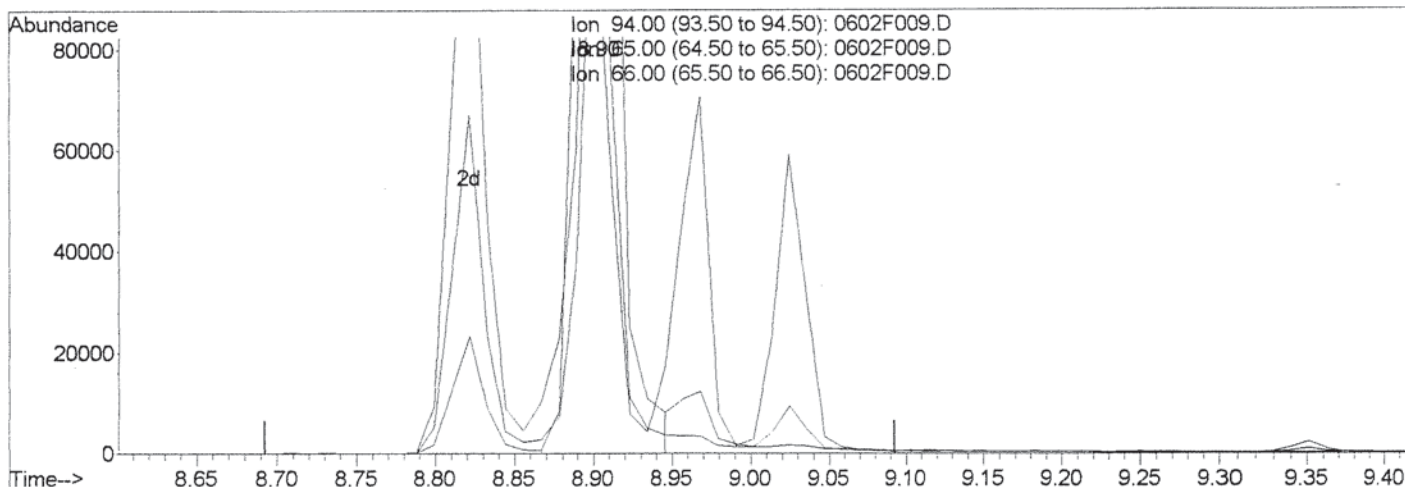
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(8) Phenol (TMC)

8.90min 107.43ug/ml m  
 response 474690

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 94.00 | 100   | 100   |
| 65.00 | 31.10 | 32.45 |
| 66.00 | 44.30 | 46.15 |
| 0.00  | 0.00  | 0.00  |

*0.5*  
*6-3-10*

*LAB*  
*6/3/10*



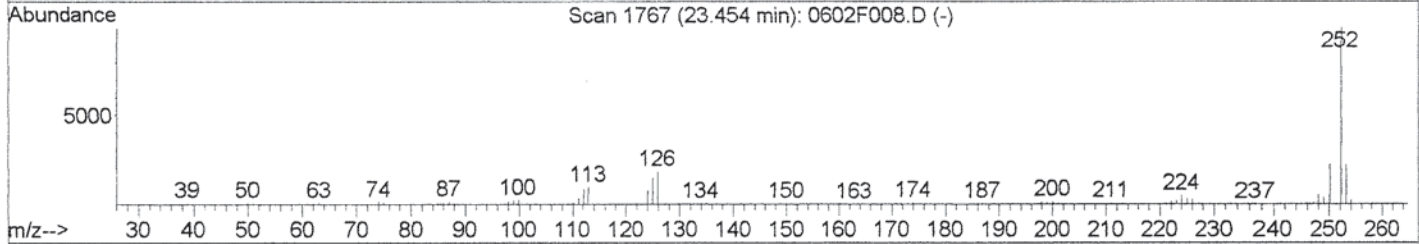
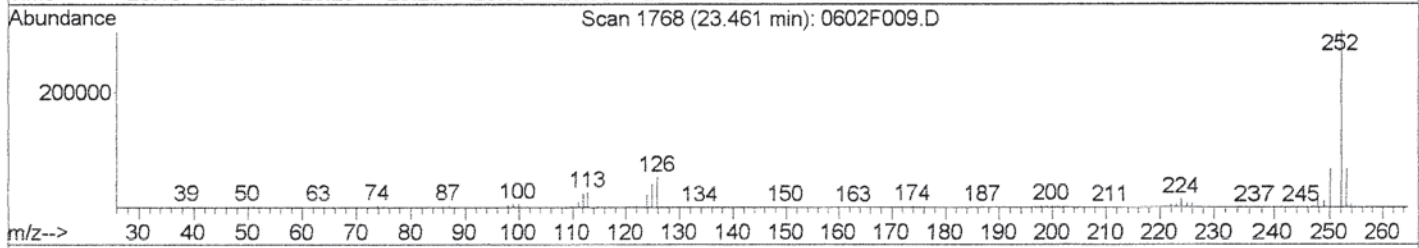
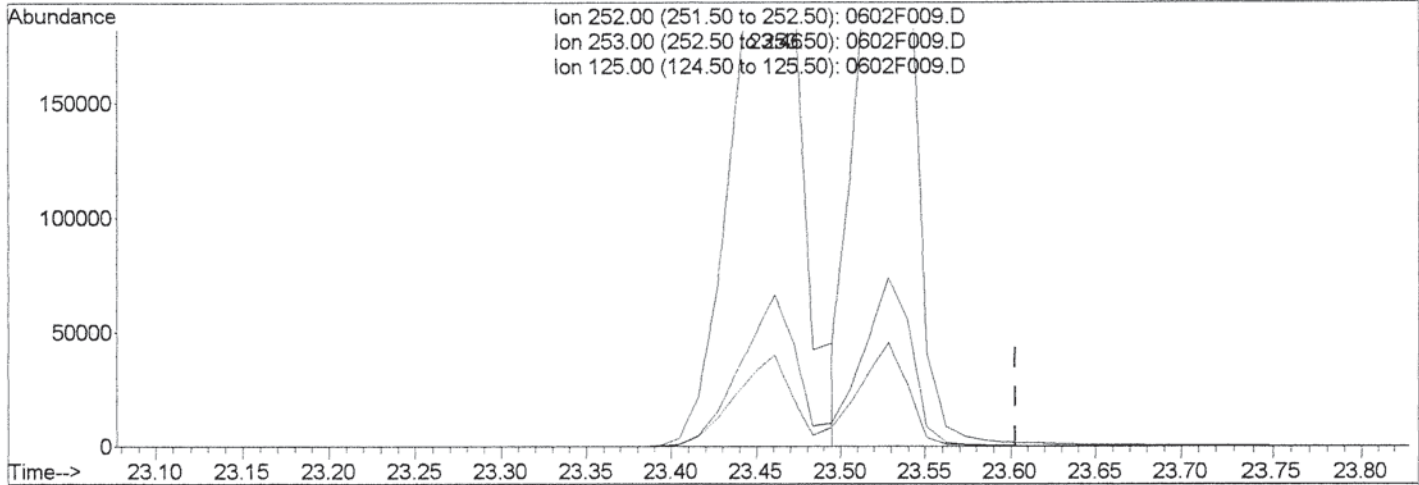
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:56 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

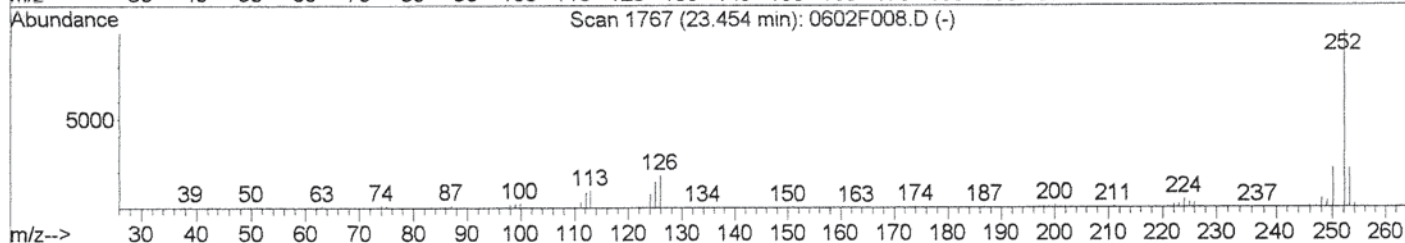
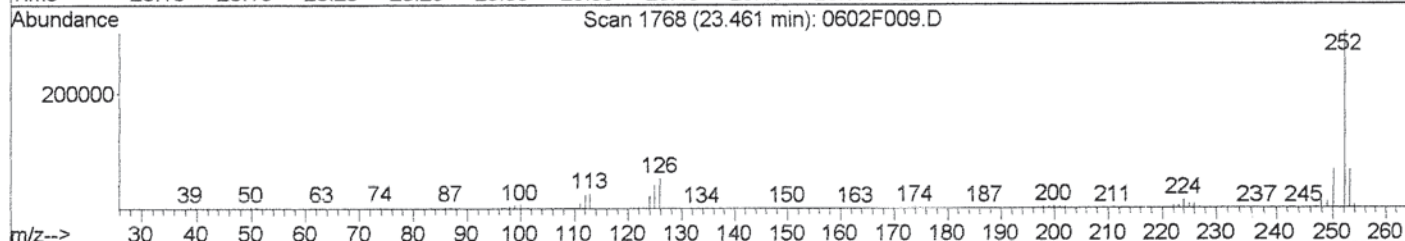
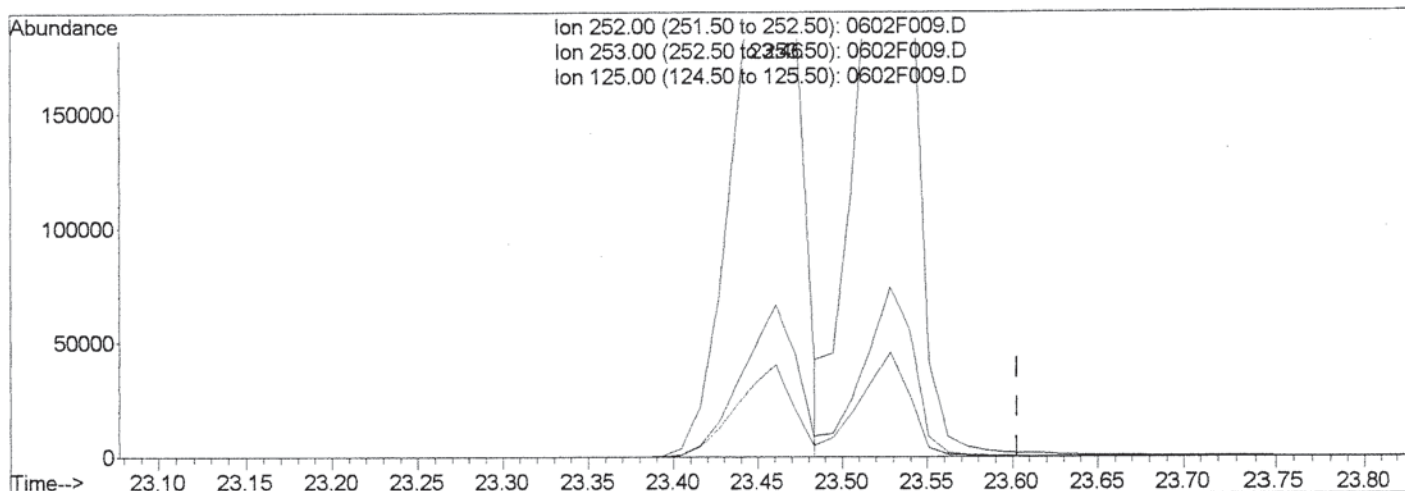
| (79) Benzo(b)fluoranthene (T) |             |       |
|-------------------------------|-------------|-------|
| 23.46min                      | 112.55ug/ml |       |
| response                      | 735458      |       |
| Ion                           | Exp%        | Act%  |
| 252.00                        | 100         | 100   |
| 253.00                        | 21.80       | 21.59 |
| 125.00                        | 14.40       | 12.70 |
| 0.00                          | 0.00        | 0.00  |

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

(79) Benzo(b)fluoranthene (T)

23.46min 107.87ug/ml m

response 704855

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.80 | 21.65 |
| 125.00 | 14.40 | 13.11 |
| 0.00   | 0.00  | 0.00  |

*02*  
*m 6 7-10*

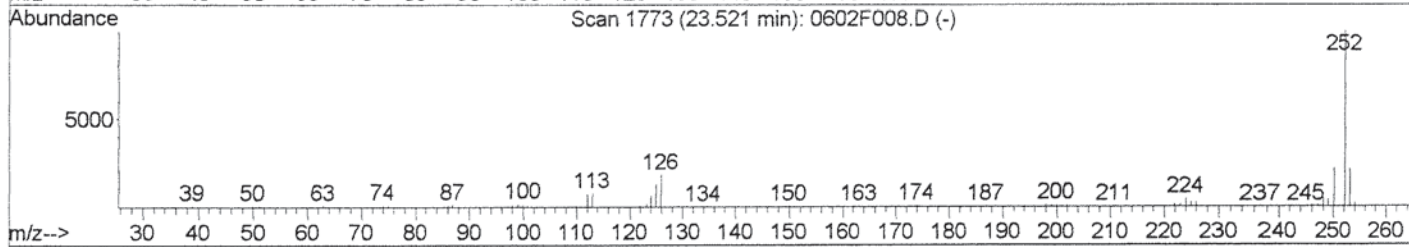
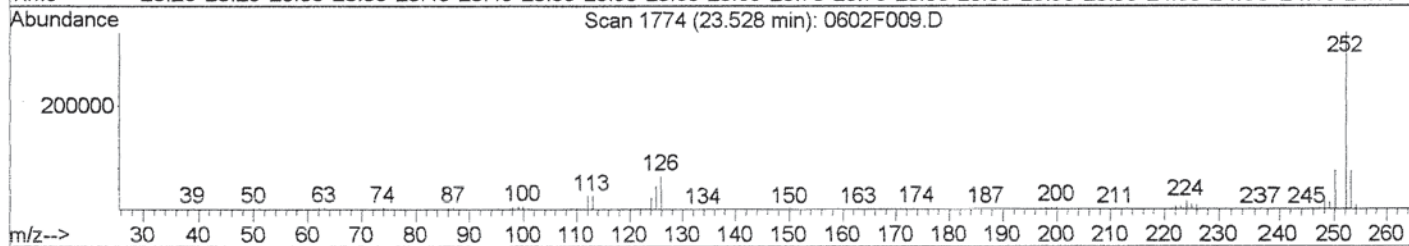
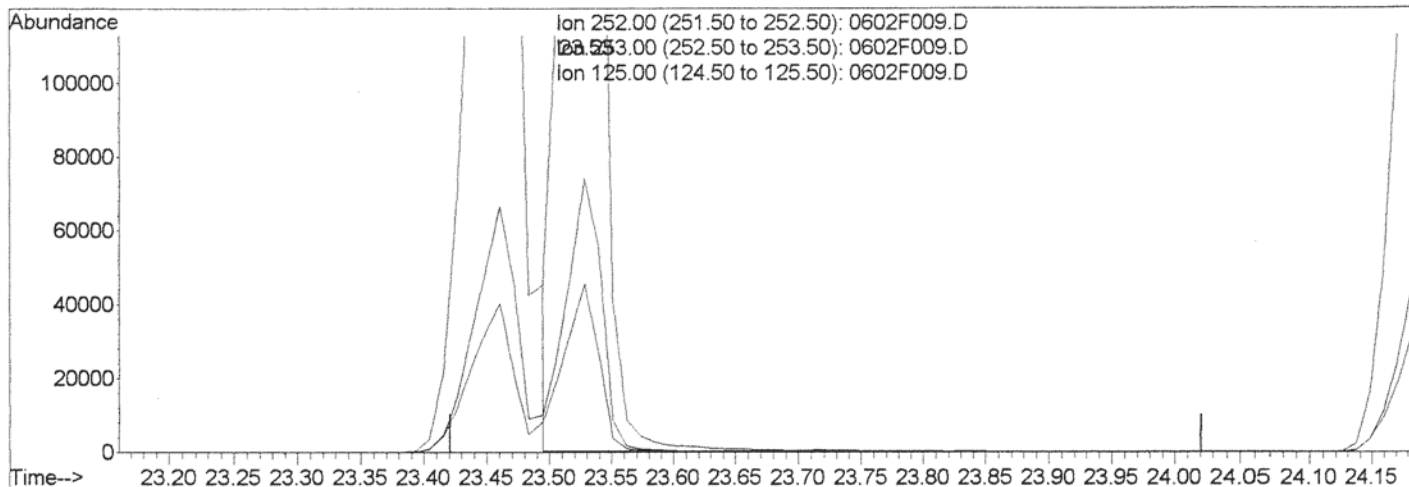
*LB*  
*6/4/10*

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

| (80) Benzo(k)fluoranthene (T) |             |       |
|-------------------------------|-------------|-------|
| 23.53min                      | 101.55ug/ml |       |
| response                      | 688650      |       |
| Ion                           | Exp%        | Act%  |
| 252.00                        | 100         | 100   |
| 253.00                        | 21.30       | 21.46 |
| 125.00                        | 13.20       | 12.91 |
| 0.00                          | 0.00        | 0.00  |



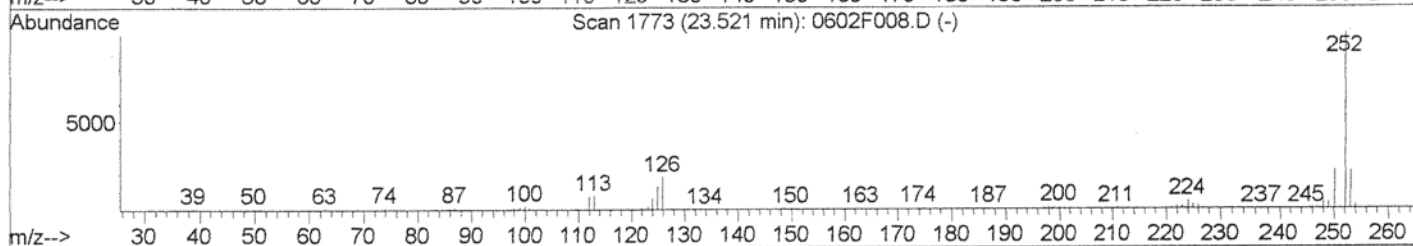
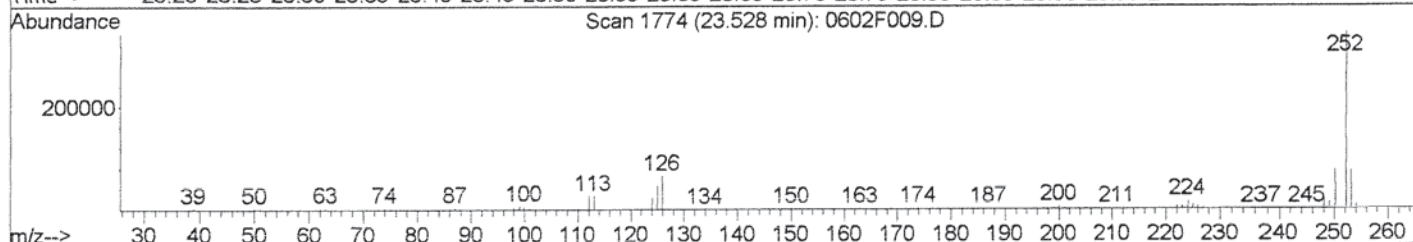
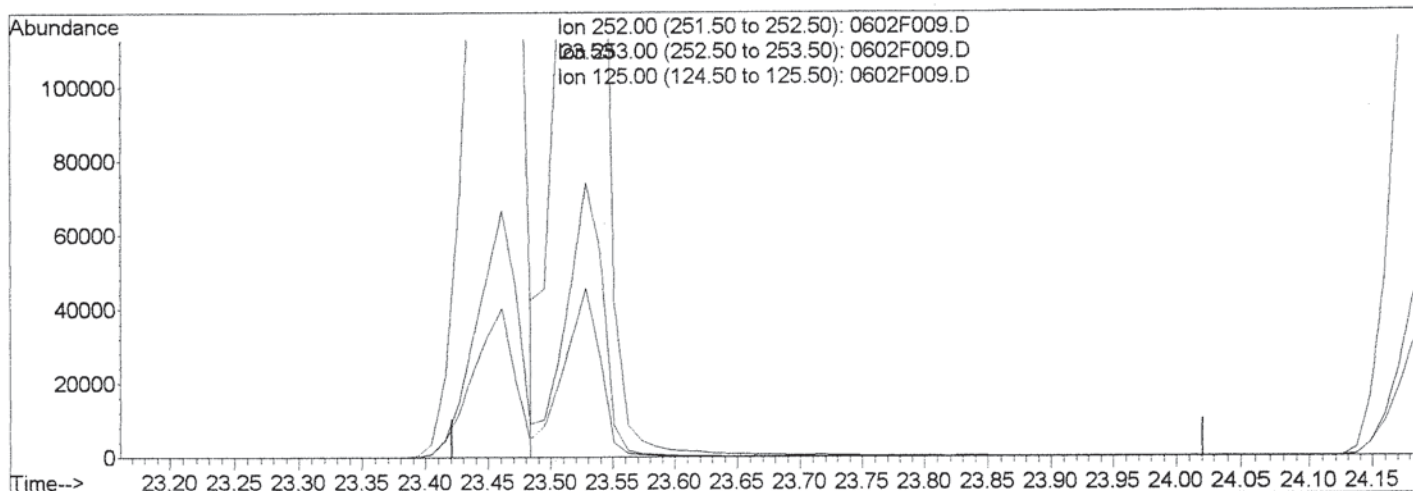
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F009.D  
 Acq On : 2 Jun 2010 8:39 pm  
 Sample : 100PPM 8270 ICAL SVM32-21H  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 7  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F009.D

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.30 | 21.50 |
| 125.00 | 13.20 | 13.25 |
| 0.00   | 0.00  | 0.00  |

(80) Benzo(k)fluoranthene (T)  
 23.53min 106.45ug/ml m  
 response 721871

*IC*  
*M 6 7 - 10*

*LB*  
*4/4/10*

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 107169   | 40.00 | ug/ml | 0.00      |
| 21) Naphthalene-d8        | 11.45 | 136  | 412368   | 40.00 | ug/ml | 0.00      |
| 34) Acenaphthene-d10      | 14.31 | 164  | 219449   | 40.00 | ug/ml | 0.00      |
| 58) Phenanthrene-d10      | 16.70 | 188  | 269634   | 40.00 | ug/ml | 0.00      |
| 68) Chrysene-d12          | 21.14 | 240  | 300460   | 40.00 | ug/ml | 0.00      |
| 77) Perylene-d12          | 24.32 | 264  | 239123   | 40.00 | ug/ml | 0.00      |

System Monitoring Compounds

|                          |         |       |          |          |       |          |
|--------------------------|---------|-------|----------|----------|-------|----------|
| 4) 2-Fluorophenol        | 7.13    | 112   | 358610   | 125.86   | ug/ml | 0.00     |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 83.91%   |
| 7) Phenol-d6             | 8.88    | 99    | 512994   | 129.09   | ug/ml | 0.00     |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 86.06%   |
| 19) Nitrobenzene-d5      | 10.29   | 82    | 492175   | 126.79   | ug/ml | 0.00     |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 126.79%# |
| 38) 2-Fluorobiphenyl     | 13.25   | 172   | 908511   | 126.29   | ug/ml | 0.00     |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 126.29%# |
| 59) 2,4,6-Tribromophenol | 15.60   | 330   | 141785   | 129.73   | ug/ml | 0.00     |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 86.49%   |
| 71) Terphenyl-d14        | 19.33   | 244   | 497027   | 108.04   | ug/ml | 0.00     |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 108.04%  |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.15  | 42   | 319885m  | 125.32 | ug/ml |        |
| 3) Pyridine                    | 4.18  | 79   | 474189m  | 131.11 | ug/ml |        |
| 5) Aniline                     | 8.82  | 93   | 480882   | 119.73 | ug/ml | 90     |
| 6) Bis(2-chloroethyl) Ether    | 8.97  | 93   | 424774   | 129.86 | ug/ml | 91     |
| 8) Phenol                      | 8.90  | 94   | 523383   | 128.60 | ug/ml | 98     |
| 9) 2-Chlorophenol              | 9.03  | 128  | 438427   | 124.94 | ug/ml | 94     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146  | 460785   | 123.81 | ug/ml | 95     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146  | 467788   | 123.41 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146  | 451132   | 125.73 | ug/ml | 98     |
| 13) Benzyl Alcohol             | 9.66  | 108  | 287282   | 133.30 | ug/ml | 96     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45   | 701879   | 130.55 | ug/ml | 82     |
| 15) 2-Methylphenol             | 9.88  | 107  | 320434   | 121.60 | ug/ml | 88     |
| 16) Hexachloroethane           | 10.18 | 117  | 218080   | 126.45 | ug/ml | 99     |
| 17) N-Nitrosodi-n-propylamine  | 10.10 | 70   | 356483   | 133.15 | ug/ml | 93     |
| 18) 4-Methylphenol             | 10.15 | 107  | 538233   | 134.50 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.32 | 77   | 468624   | 130.60 | ug/ml | 96     |
| 22) Isophorone                 | 10.75 | 82   | 949856   | 127.69 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.85 | 139  | 269293   | 129.98 | ug/ml | 93     |
| 24) 2,4-Dimethylphenol         | 11.00 | 122  | 349478   | 127.51 | ug/ml | 97     |
| 25) Bis(2-chloroethoxy)methane | 11.12 | 93   | 526605   | 126.01 | ug/ml | 99     |

(#) = qualifier out of range (m) = manual integration  
 0602F010.D 0602BNC7.M Thu Jun 03 11:34:33 2010

LAB  
 6-3-10  
 14110

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit   | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.28 | 162  | 421752   | 135.64 | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.35 | 122  | 316824   | 134.88 | ug/ml  | 91     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 410335   | 124.30 | ug/ml  | 98     |
| 29) Naphthalene                | 11.50 | 128  | 1246594  | 126.00 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 526808   | 120.69 | ug/ml  | 94     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 255280   | 121.90 | ug/ml  | 98     |
| 32) 4-Chloro-3-methylphenol    | 12.46 | 107  | 413004   | 127.24 | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.63 | 142  | 799450   | 126.99 | ug/ml  | 98     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 286789   | 121.97 | ug/ml  | 98     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 282420   | 124.75 | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 325010   | 128.83 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 764123   | 120.40 | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.62 | 65   | 265703   | 130.13 | ug/ml  | 90     |
| 41) Acenaphthylene             | 14.08 | 152  | 1193053  | 122.02 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.94 | 163  | 878268   | 117.73 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.03 | 165  | 199250   | 117.86 | ug/ml  | 88     |
| 44) Acenaphthene               | 14.37 | 154  | 669820   | 120.03 | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.30 | 138  | 209613   | 117.84 | ug/ml  | 99     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 124037   | 126.45 | ug/ml  | 92     |
| 47) Dibenzofuran               | 14.65 | 168  | 1035863  | 117.73 | ug/ml  | 93     |
| 48) 4-Nitrophenol              | 14.65 | 109  | 118067   | 122.58 | ug/ml  | 96     |
| 49) 2,4-Dinitrotoluene         | 14.67 | 165  | 238539   | 111.33 | ug/ml  | 76     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.88 | 232  | 225291   | 122.48 | ug/ml  | 94     |
| 51) Fluorene                   | 15.20 | 166  | 735879   | 111.61 | ug/ml  | 99     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 398548   | 118.08 | ug/ml  | 96     |
| 53) Diethyl Phthalate          | 15.09 | 149  | 828919   | 114.93 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.30 | 138  | 184736   | 119.99 | ug/ml  | 95     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.34 | 198  | 141371   | 121.31 | ug/ml# | 35     |
| 56) N-Nitrosodiphenylamine     | 15.44 | 169  | 495689   | 112.76 | ug/ml  | 100    |
| 57) 1,2-Diphenylhydrazine      | 15.48 | 77   | 876400m  | 117.28 | ug/ml  |        |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 212841   | 130.93 | ug/ml  | 95     |
| 61) Hexachlorobenzene          | 16.09 | 284  | 233548   | 123.95 | ug/ml  | 87     |
| 62) Pentachlorophenol          | 16.43 | 266  | 136664   | 129.07 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.75 | 178  | 843292   | 117.72 | ug/ml  | 99     |
| 64) Anthracene                 | 16.84 | 178  | 910273   | 120.86 | ug/ml  | 100    |
| 65) Carbazole                  | 17.12 | 167  | 736019   | 119.71 | ug/ml  | 100    |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 1009527  | 123.09 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 841477   | 129.40 | ug/ml  | 99     |
| 69) Benzidine                  | 18.93 | 184  | 281129   | 111.43 | ug/ml  | 99     |
| 70) Pyrene                     | 19.02 | 202  | 873938   | 108.98 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 564627   | 123.55 | ug/ml  | 93     |

(#) = qualifier out of range (m) = manual integration  
 0602F010.D 0602BNC7.M Thu Jun 03 11:34:33 2010

*LARO*

*6-7-10*



Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

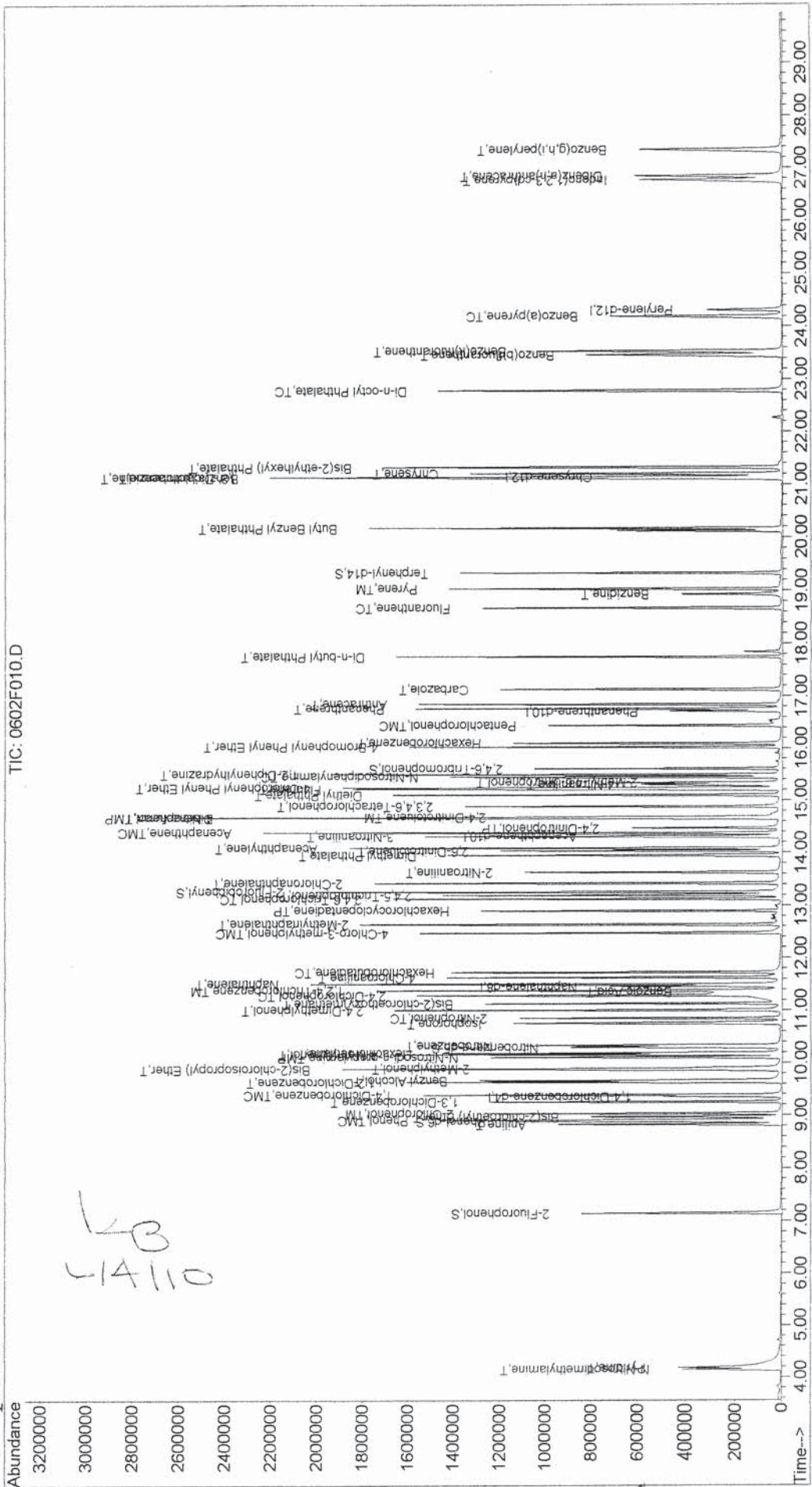
| Compound                       | R.T.  | QIon | Response | Conc   | Unit  | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 374209   | 119.18 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.12 | 228  | 831988   | 117.82 | ug/ml | 100    |
| 75) Chrysene                   | 21.20 | 228  | 790321   | 115.61 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 833025   | 128.08 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.78 | 149  | 1406271  | 133.52 | ug/ml | 96     |
| 79) Benzo(b)fluoranthene       | 23.46 | 252  | 744832   | 120.91 | ug/ml | 99     |
| 80) Benzo(k)fluoranthene       | 23.53 | 252  | 846656   | 132.44 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.20 | 252  | 632102   | 123.55 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.78 | 276  | 563194   | 127.11 | ug/ml | 99     |
| 83) Dibenz(a,h)anthracene      | 26.86 | 278  | 580298   | 122.95 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.35 | 276  | 597039   | 124.83 | ug/ml | 99     |

LB  
 4/11/10

Data File : J:\MS07\DATA\060210\0602F010.D  
Acq On : 2 Jun 2010 9:19 pm  
Sample : 120PPM 8270 ICAL SVM32-21I  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:58 2010

Vial: 8  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00  
Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



Handwritten notes: 14110 and a signature.

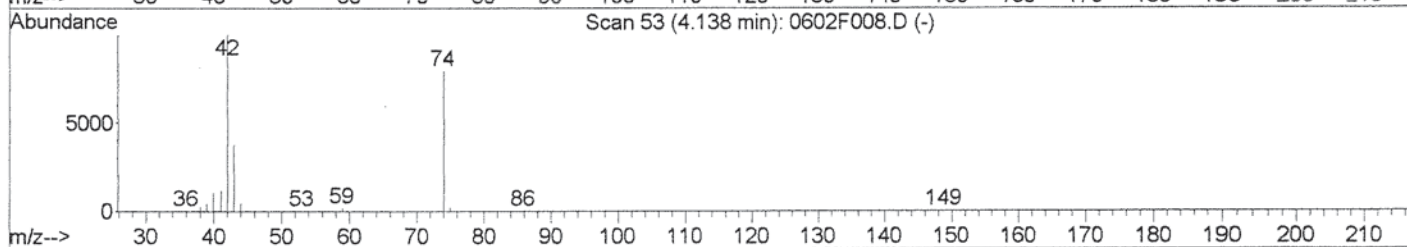
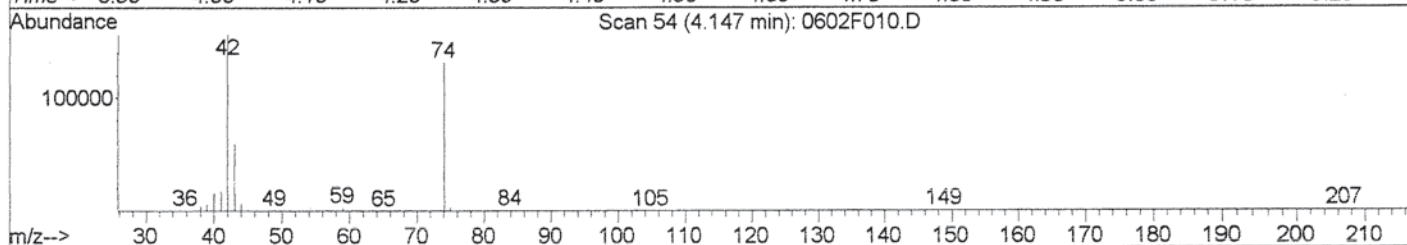
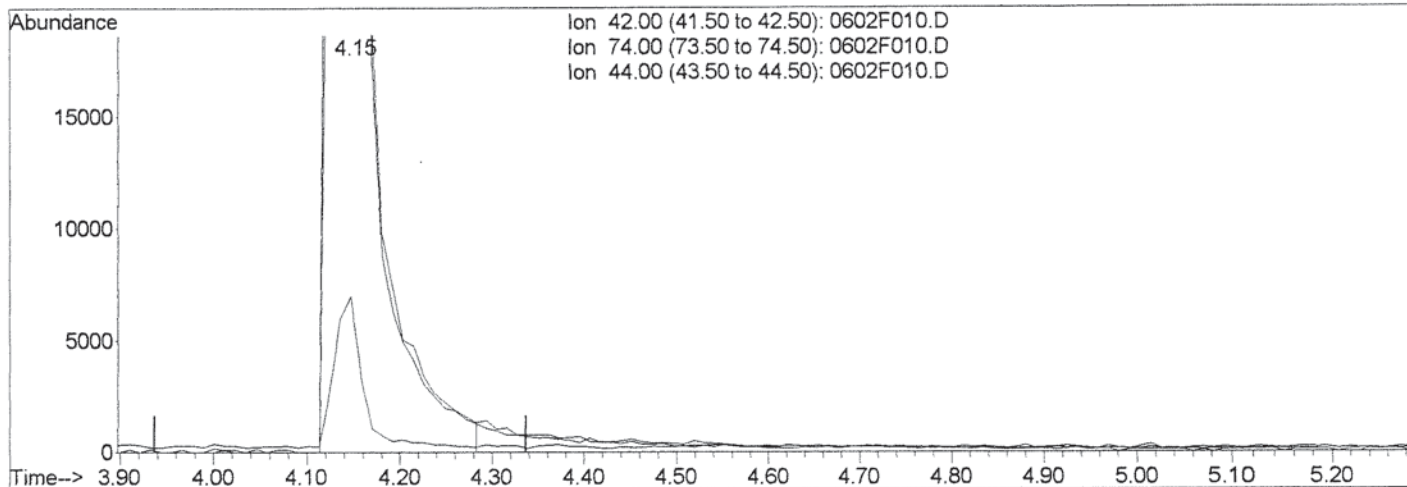
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

(2) N-Nitrosodimethylamine (T)

4.15min 120.79ug/ml

response 308314

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 83.79 |
| 44.00 | 4.40  | 4.30  |
| 0.00  | 0.00  | 0.00  |



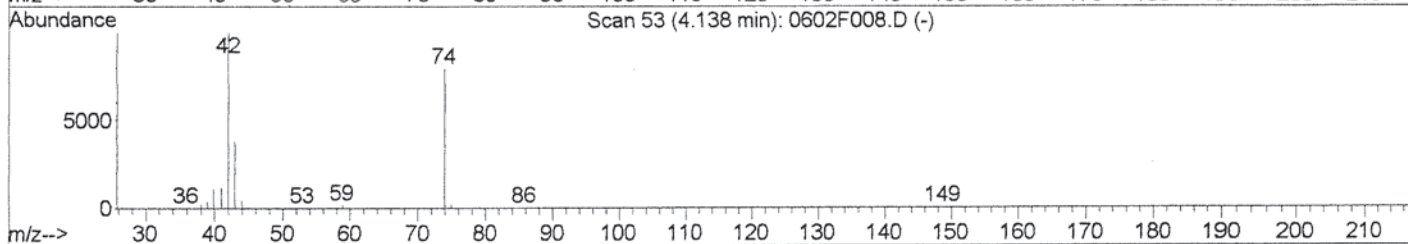
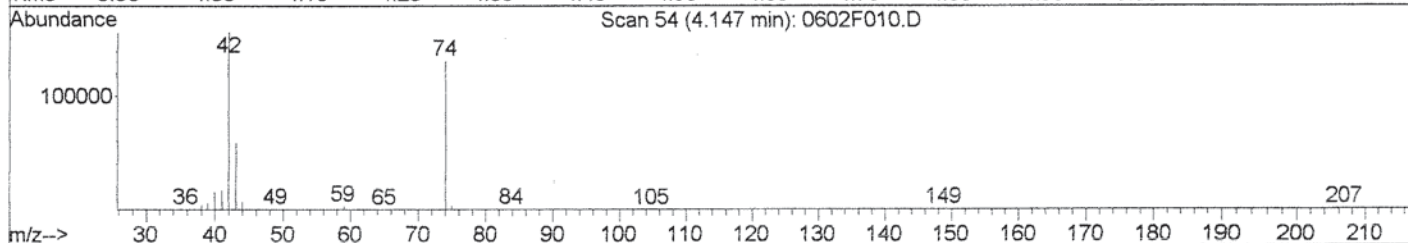
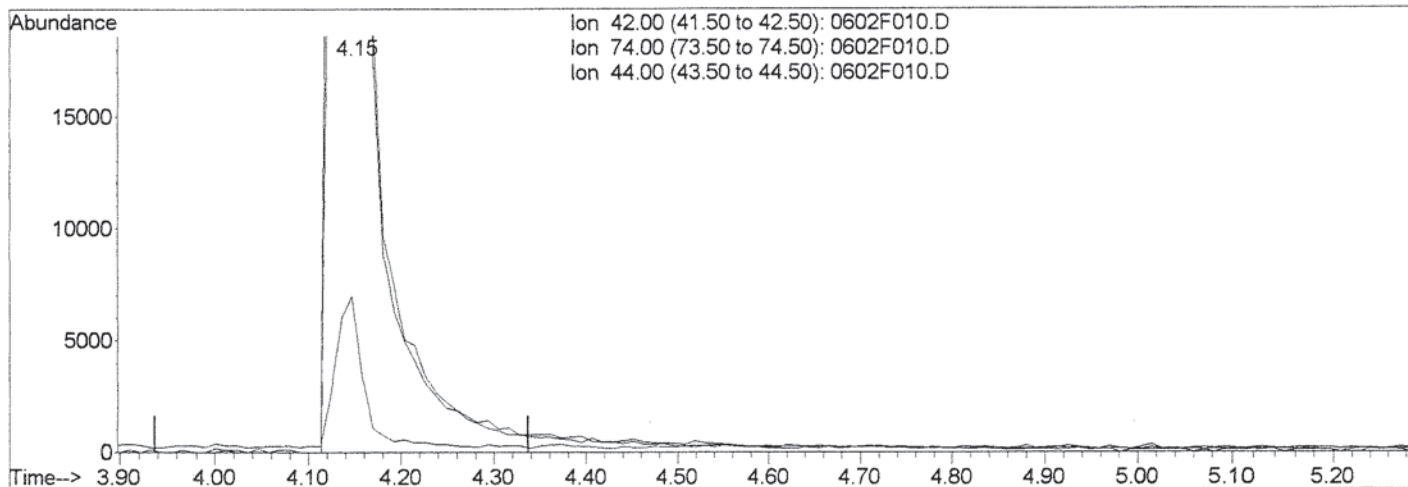
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

(2) N-Nitrosodimethylamine (T)

4.15min 125.32ug/ml m

response 319885

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 83.84 |
| 44.00 | 4.40  | 4.44  |
| 0.00  | 0.00  | 0.00  |

*IC*  
*M 6-3-10*

*LB*  
*414110*

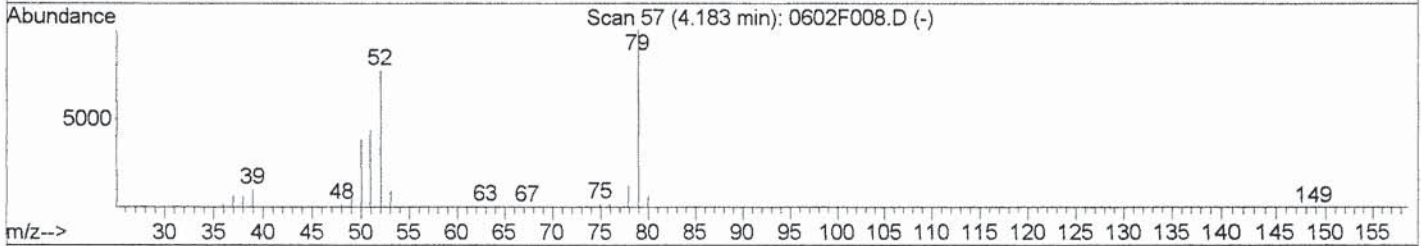
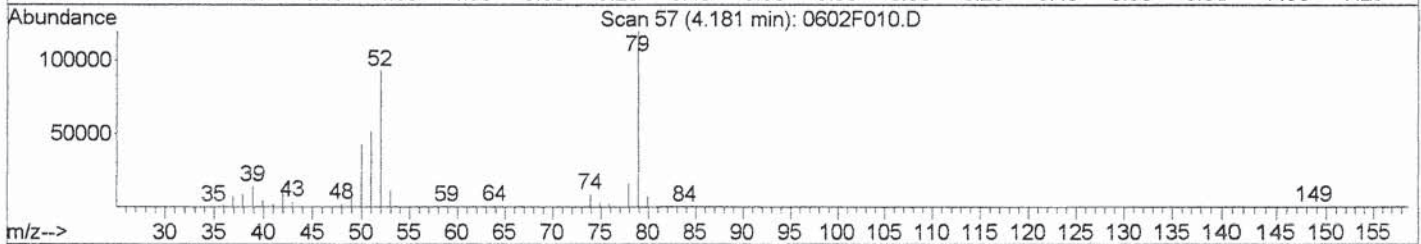
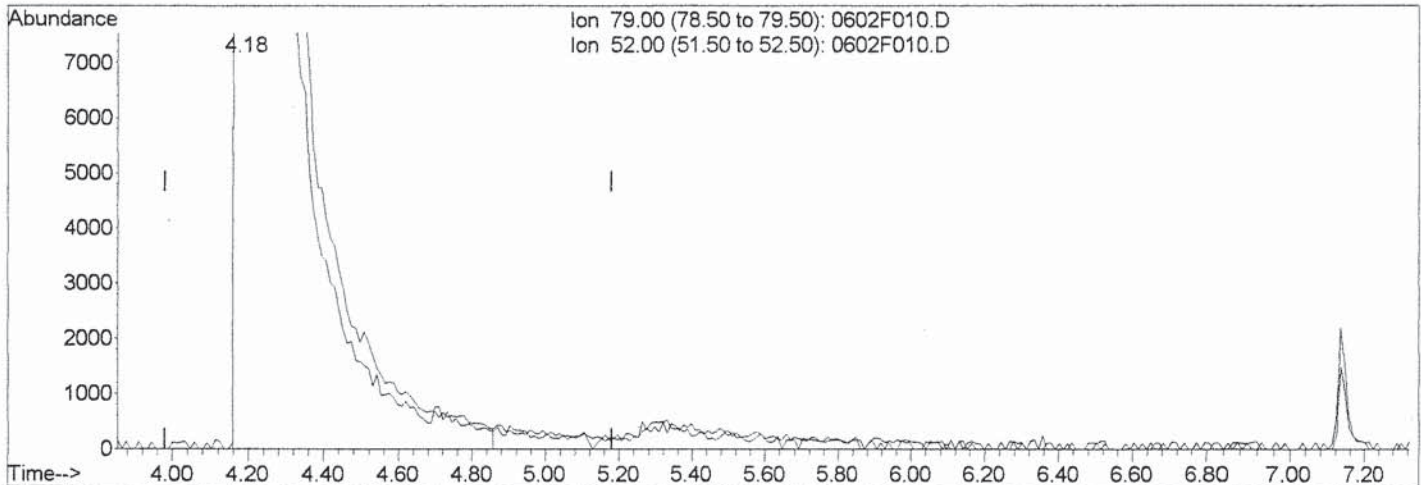
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

(3) Pyridine (T)

4.18min 126.66ug/ml

response 458112

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 77.36 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

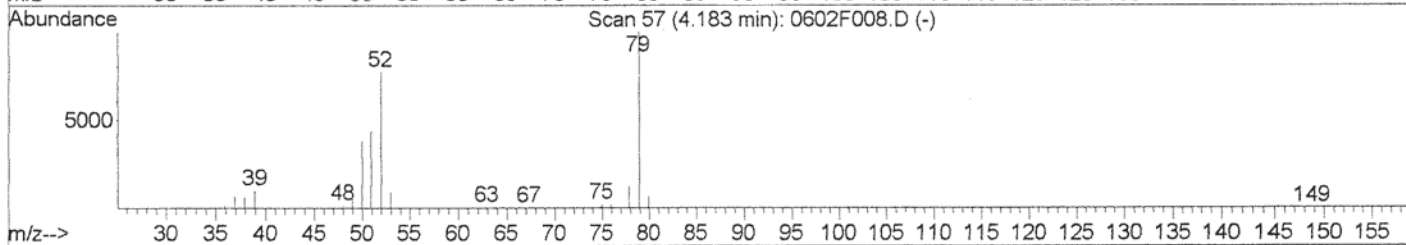
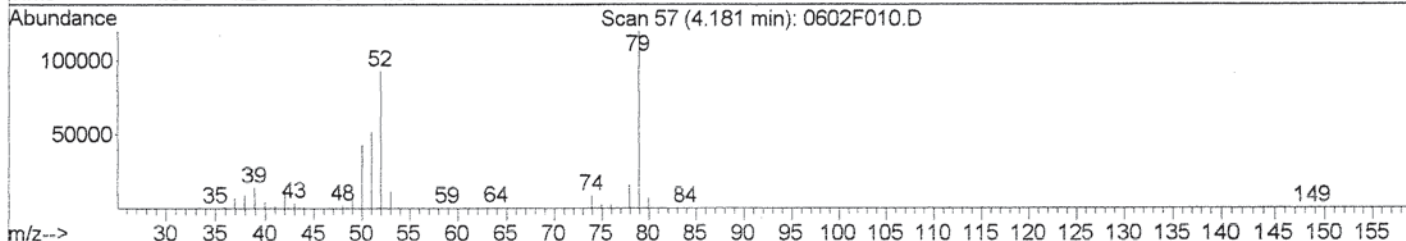
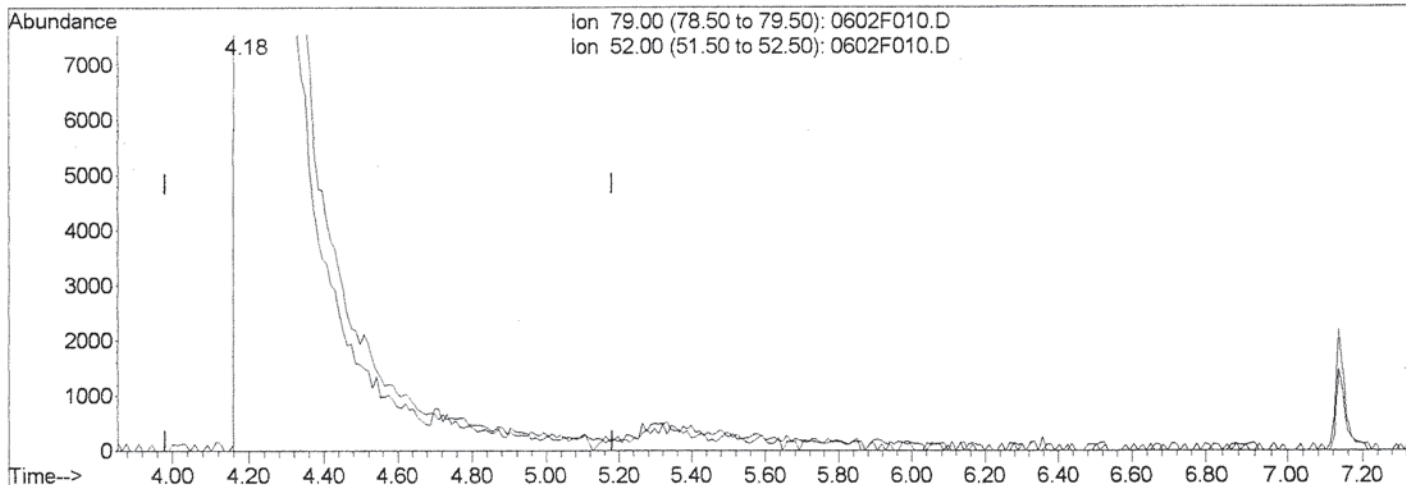
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

| (3) Pyridine (T) |               |       |
|------------------|---------------|-------|
| 4.18min          | 131.11ug/ml m |       |
| response         | 474189        |       |
| Ion              | Exp%          | Act%  |
| 79.00            | 100           | 100   |
| 52.00            | 77.00         | 77.38 |
| 0.00             | 0.00          | 0.00  |
| 0.00             | 0.00          | 0.00  |

*Handwritten notes:* 56, 2.3-10

*Handwritten:* 43, 4/4/10



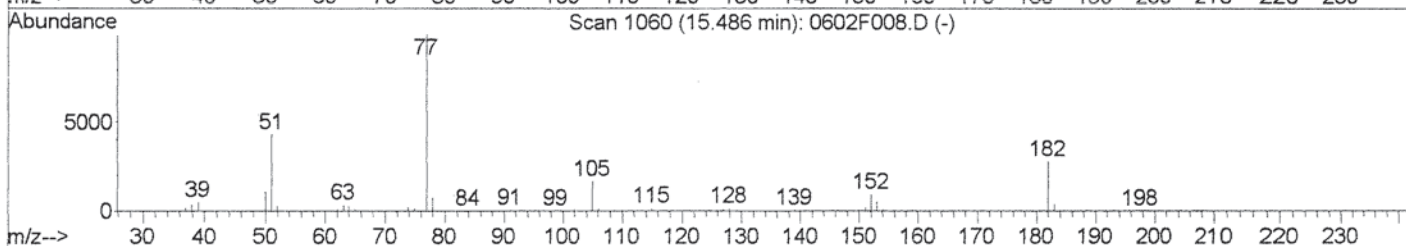
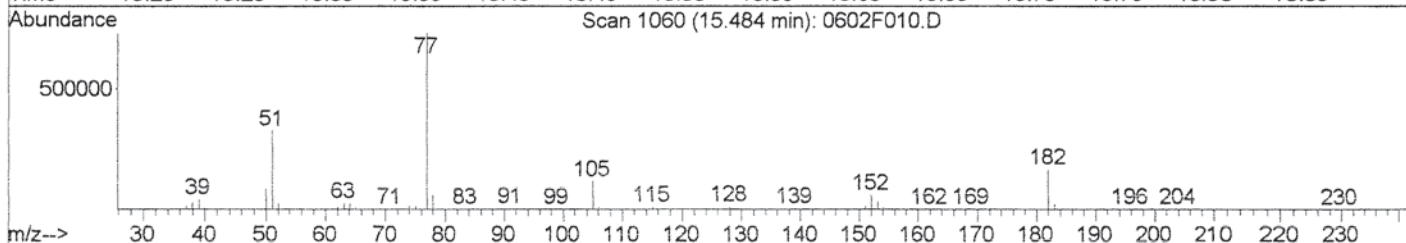
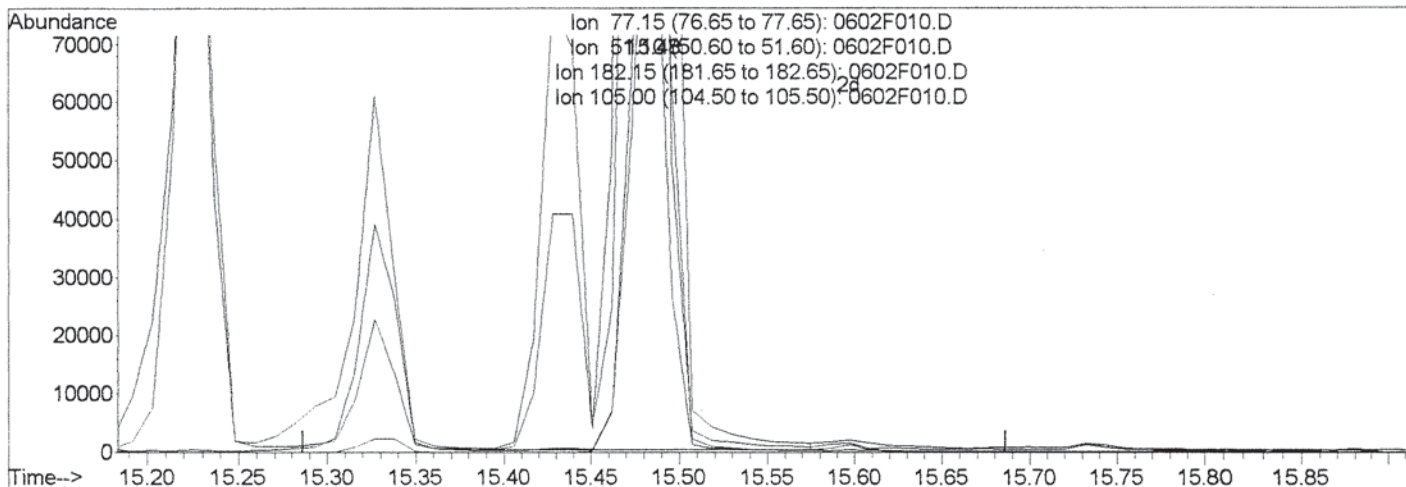
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:57 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

| (57) 1,2-Diphenylhydrazine (T) |             |
|--------------------------------|-------------|
| 15.48min                       | 125.66ug/ml |
| response                       | 939056      |
| Ion                            | Exp% Act%   |
| 77.15                          | 100 100     |
| 51.10                          | 43.10 44.67 |
| 182.15                         | 27.90 22.70 |
| 105.00                         | 16.60 15.94 |

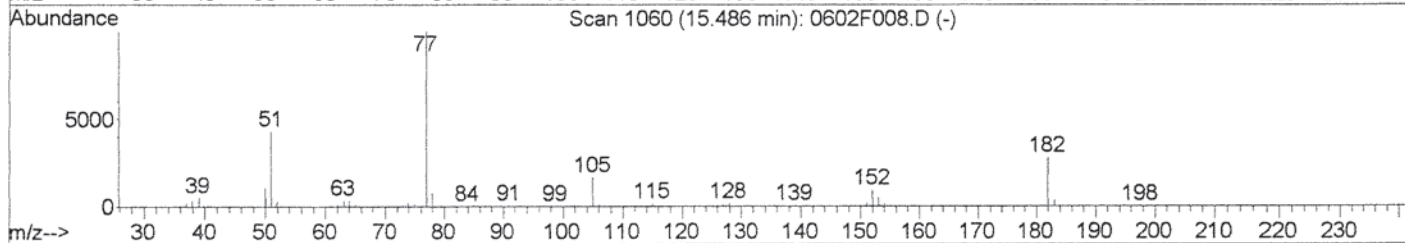
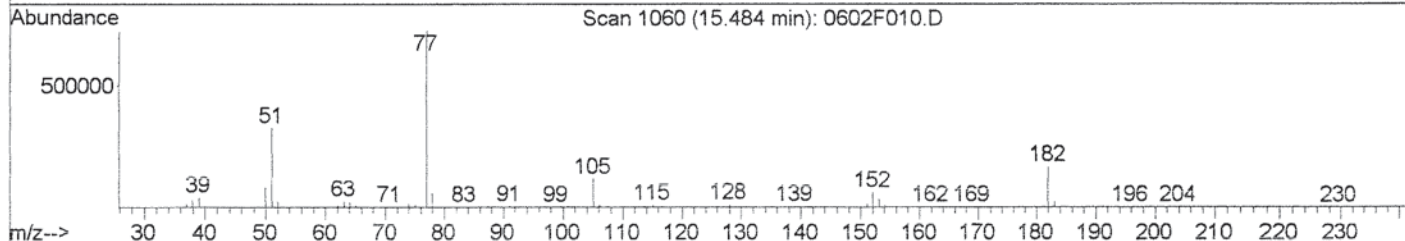
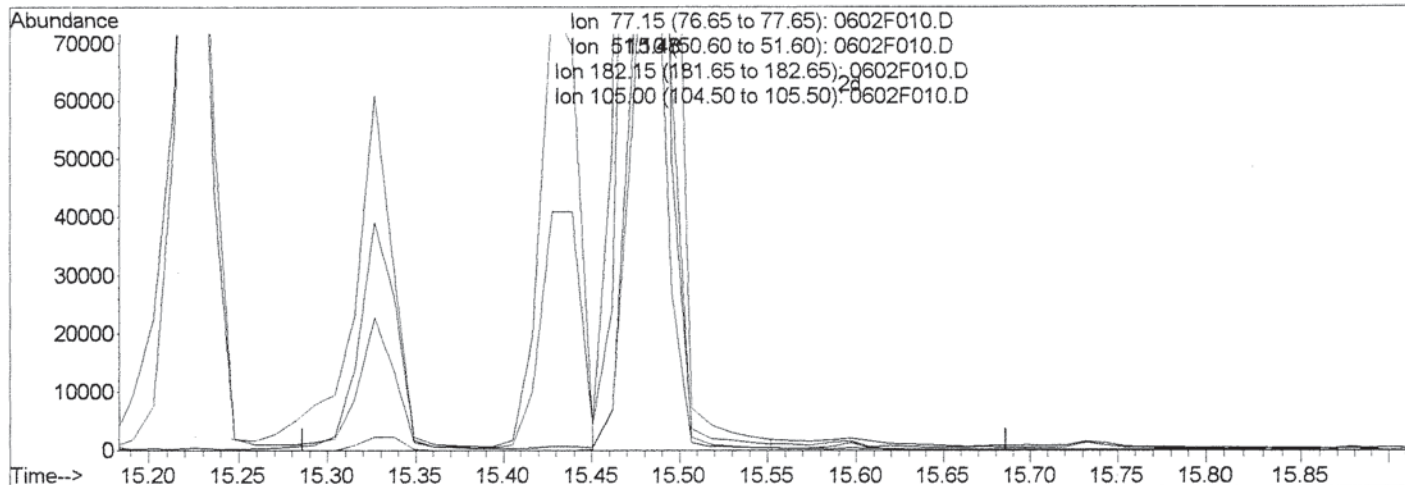
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F010.D  
 Acq On : 2 Jun 2010 9:19 pm  
 Sample : 120PPM 8270 ICAL SVM32-21I  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:58 2010

Vial: 8  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F010.D

| Retention Time (min) | Abundance | Ion                            | Exp%  | Act%  |
|----------------------|-----------|--------------------------------|-------|-------|
| 15.48                | 117.28    | (57) 1,2-Diphenylhydrazine (T) | 100   | 100   |
| 15.48                | 876400    | response                       |       |       |
| 77.15                |           | Ion                            | Exp%  | Act%  |
| 51.10                |           | Ion                            | 43.10 | 44.72 |
| 182.15               |           | Ion                            | 27.90 | 22.69 |
| 105.00               |           | Ion                            | 16.60 | 15.97 |

*Handwritten notes:* 05, A 6-3-10, LB, 414110

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 109086   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.46 | 136  | 448361   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 217211   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.71 | 188  | 273850   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.15 | 240  | 312329   | 40.00 | ug/ml | 0.02     |
| 77) Perylene-d12          | 24.31 | 264  | 231441   | 40.00 | ug/ml | 0.00     |

| System Monitoring Compounds | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|-------|----------|
| 4) 2-Fluorophenol           | 7.14           | 112  | 488472     | 168.43   | ug/ml | 0.00     |
| Spiked Amount 150.000       | Range 21 - 100 |      | Recovery = | 112.29%# |       |          |
| 7) Phenol-d6                | 8.89           | 99   | 703915     | 174.03   | ug/ml | 0.02     |
| Spiked Amount 150.000       | Range 10 - 94  |      | Recovery = | 116.02%# |       |          |
| 19) Nitrobenzene-d5         | 10.29          | 82   | 690106     | 174.65   | ug/ml | 0.00     |
| Spiked Amount 100.000       | Range 35 - 114 |      | Recovery = | 174.65%# |       |          |
| 38) 2-Fluorobiphenyl        | 13.25          | 172  | 1173825    | 164.85   | ug/ml | 0.00     |
| Spiked Amount 100.000       | Range 43 - 116 |      | Recovery = | 164.85%# |       |          |
| 59) 2,4,6-Tribromophenol    | 15.60          | 330  | 176758     | 159.25   | ug/ml | 0.00     |
| Spiked Amount 150.000       | Range 10 - 123 |      | Recovery = | 106.17%  |       |          |
| 71) Terphenyl-d14           | 19.33          | 244  | 733803     | 153.44   | ug/ml | 0.00     |
| Spiked Amount 100.000       | Range 33 - 141 |      | Recovery = | 153.44%# |       |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.15  | 42   | 444553m  | 171.10 | ug/ml |        |
| 3) Pyridine                    | 4.18  | 79   | 622573m  | 169.11 | ug/ml |        |
| 5) Aniline                     | 8.83  | 93   | 680212   | 166.38 | ug/ml | 66     |
| 6) Bis(2-chloroethyl) Ether    | 8.98  | 93   | 579071   | 173.92 | ug/ml | 94     |
| 8) Phenol                      | 8.91  | 94   | 709006   | 171.14 | ug/ml | 99     |
| 9) 2-Chlorophenol              | 9.03  | 128  | 607699   | 170.14 | ug/ml | 94     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146  | 607647   | 160.40 | ug/ml | 99     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146  | 627752   | 162.70 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.63  | 146  | 581957   | 159.34 | ug/ml | 99     |
| 13) Benzyl Alcohol             | 9.66  | 108  | 383597   | 174.86 | ug/ml | 95     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45   | 983546   | 179.73 | ug/ml | 95     |
| 15) 2-Methylphenol             | 9.88  | 107  | 456062   | 170.03 | ug/ml | 98     |
| 16) Hexachloroethane           | 10.18 | 117  | 284893   | 162.29 | ug/ml | 90     |
| 17) N-Nitrosodi-n-propylamine  | 10.11 | 70   | 486253   | 178.43 | ug/ml | 96     |
| 18) 4-Methylphenol             | 10.16 | 107  | 679988   | 166.93 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.33 | 77   | 654697   | 179.26 | ug/ml | 96     |
| 22) Isophorone                 | 10.76 | 82   | 1310662  | 162.05 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.86 | 139  | 389366   | 172.85 | ug/ml | 91     |
| 24) 2,4-Dimethylphenol         | 11.00 | 122  | 489049   | 164.11 | ug/ml | 98     |
| 25) Bis(2-chloroethoxy)methane | 11.13 | 93   | 709117   | 156.07 | ug/ml | 98     |

(#) = qualifier out of range (m) = manual integration  
 0602F011.D 0602BNC7.M Thu Jun 03 11:34:35 2010

LAP 10

6-3-10



Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit   | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.29 | 162  | 555411   | 164.29 | ug/ml  | 96     |
| 27) Benzoic Acid               | 11.38 | 122  | 432469   | 169.34 | ug/ml  | 99     |
| 28) 1,2,4-Trichlorobenzene     | 11.38 | 180  | 557107   | 155.22 | ug/ml  | 100    |
| 29) Naphthalene                | 11.49 | 128  | 1685511  | 156.69 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 726035   | 152.98 | ug/ml  | 95     |
| 31) Hexachlorobutadiene        | 11.71 | 225  | 343046   | 150.65 | ug/ml  | 100    |
| 32) 4-Chloro-3-methylphenol    | 12.47 | 107  | 525159   | 148.81 | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.63 | 142  | 1062245  | 155.19 | ug/ml  | 98     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 368442   | 156.39 | ug/ml  | 96     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 371381   | 165.74 | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 416064   | 166.62 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.42 | 162  | 1046731  | 166.62 | ug/ml  | 100    |
| 40) 2-Nitroaniline             | 13.63 | 65   | 348108   | 172.25 | ug/ml  | 89     |
| 41) Acenaphthylene             | 14.08 | 152  | 1529431  | 158.04 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.95 | 163  | 1114437  | 150.92 | ug/ml  | 100    |
| 43) 2,6-Dinitrotoluene         | 14.04 | 165  | 260093   | 155.43 | ug/ml  | 87     |
| 44) Acenaphthene               | 14.37 | 154  | 860528   | 155.80 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.31 | 138  | 275708   | 156.59 | ug/ml  | 98     |
| 46) 2,4-Dinitrophenol          | 14.48 | 184  | 170361   | 175.46 | ug/ml  | 84     |
| 47) Dibenzofuran               | 14.66 | 168  | 1350415  | 155.06 | ug/ml  | 93     |
| 48) 4-Nitrophenol              | 14.66 | 109  | 158591   | 166.35 | ug/ml# | 74     |
| 49) 2,4-Dinitrotoluene         | 14.68 | 165  | 321008   | 151.37 | ug/ml  | 78     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.88 | 232  | 284009   | 156.00 | ug/ml  | 97     |
| 51) Fluorene                   | 15.21 | 166  | 1003639  | 153.79 | ug/ml  | 97     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 509416   | 152.48 | ug/ml  | 99     |
| 53) Diethyl Phthalate          | 15.10 | 149  | 1001407  | 140.28 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.31 | 138  | 246938   | 162.04 | ug/ml  | 97     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.34 | 198  | 190402   | 165.07 | ug/ml# | 69     |
| 56) N-Nitrosodiphenylamine     | 15.45 | 169  | 632192   | 145.29 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.49 | 77   | 1102059m | 148.99 | ug/ml  |        |
| 60) 4-Bromophenyl Phenyl Ether | 16.02 | 248  | 273308   | 165.54 | ug/ml  | 99     |
| 61) Hexachlorobenzene          | 16.09 | 284  | 308236   | 161.07 | ug/ml  | 97     |
| 62) Pentachlorophenol          | 16.44 | 266  | 181671   | 168.94 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.75 | 178  | 1098185  | 150.94 | ug/ml  | 100    |
| 64) Anthracene                 | 16.83 | 178  | 1199856  | 156.86 | ug/ml  | 99     |
| 65) Carbazole                  | 17.12 | 167  | 1051885  | 168.45 | ug/ml  | 100    |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 1300895  | 156.18 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.67 | 202  | 1143096  | 173.07 | ug/ml  | 99     |
| 69) Benzidine                  | 18.93 | 184  | 421674   | 160.79 | ug/ml  | 99     |
| 70) Pyrene                     | 19.03 | 202  | 1196757  | 143.56 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.17 | 149  | 775186   | 163.18 | ug/ml  | 97     |

(#) = qualifier out of range (m) = manual integration  
 0602F011.D 0602BNC7.M Thu Jun 03 11:34:35 2010

*M 7-10*

*LABIO*

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:54 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit  | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 496687   | 152.18 | ug/ml | 99     |
| 74) Benz(a)anthracene          | 21.12 | 228  | 1141284  | 155.48 | ug/ml | 100    |
| 75) Chrysene                   | 21.20 | 228  | 1081446  | 152.18 | ug/ml | 100    |
| 76) Bis(2-ethylhexyl) Phthalat | 21.32 | 149  | 1125298  | 166.45 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.79 | 149  | 1847807  | 181.27 | ug/ml | 98     |
| 79) Benzo(b)fluoranthene       | 23.47 | 252  | 1034745  | 173.55 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.55 | 252  | 1015032  | 164.05 | ug/ml | 98     |
| 81) Benzo(a)pyrene             | 24.20 | 252  | 832627   | 168.14 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.78 | 276  | 752501   | 175.47 | ug/ml | 97     |
| 83) Dibenz(a,h)anthracene      | 26.86 | 278  | 795069   | 174.05 | ug/ml | 98     |
| 84) Benzo(g,h,i)perylene       | 27.37 | 276  | 748550   | 161.71 | ug/ml | 99     |

LB  
 6/4/10

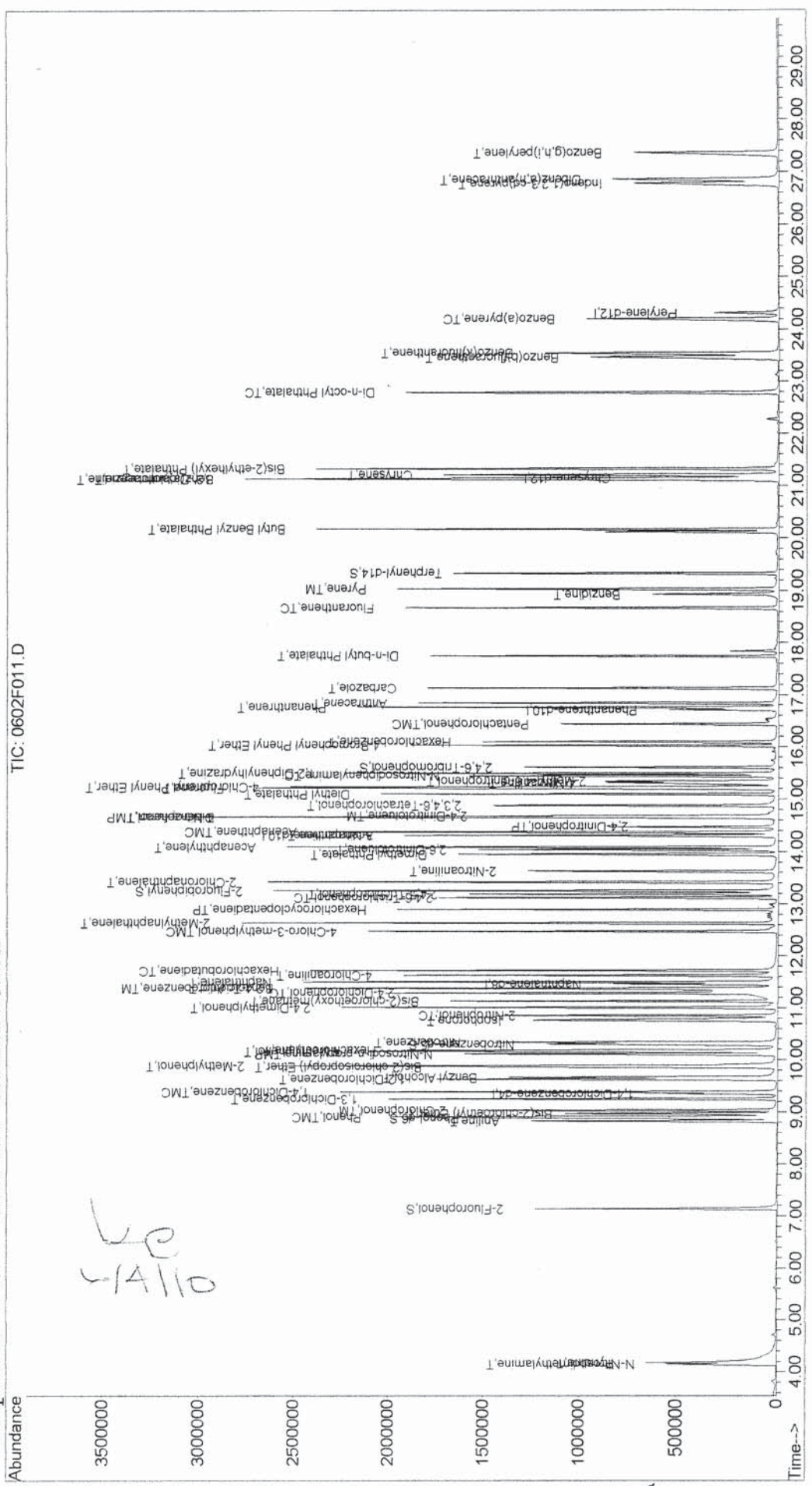


Data File : J:\MS07\DATA\060210\0602F011.D  
Acq On : 2 Jun 2010 10:00 pm  
Sample : 160PPM 8270 ICAL SVM32-21J  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 10:59 2010

Vial: 9  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration





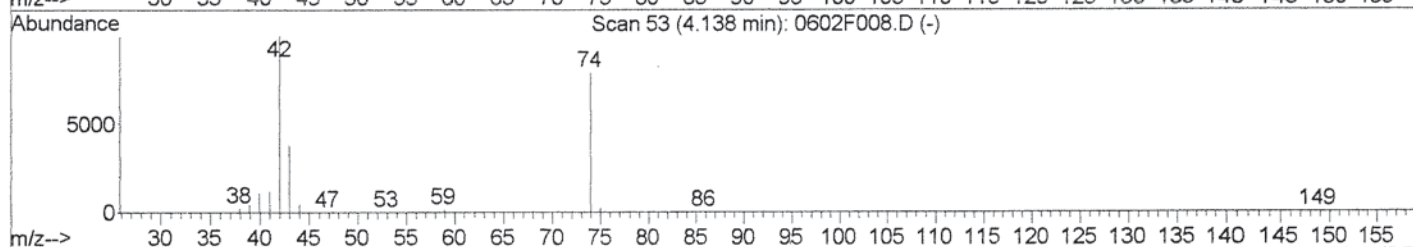
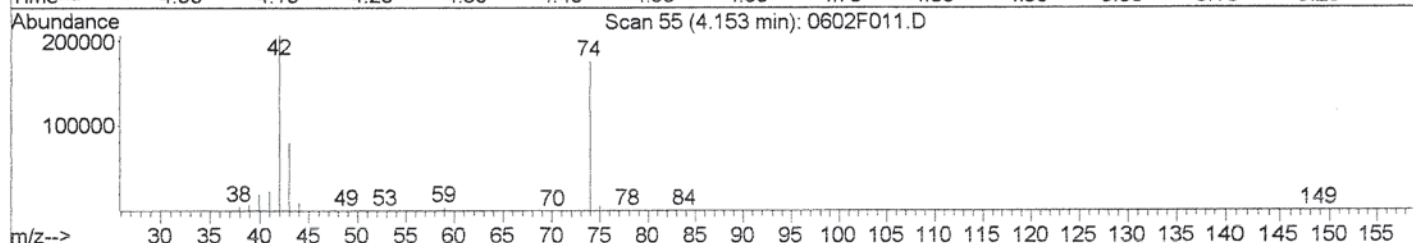
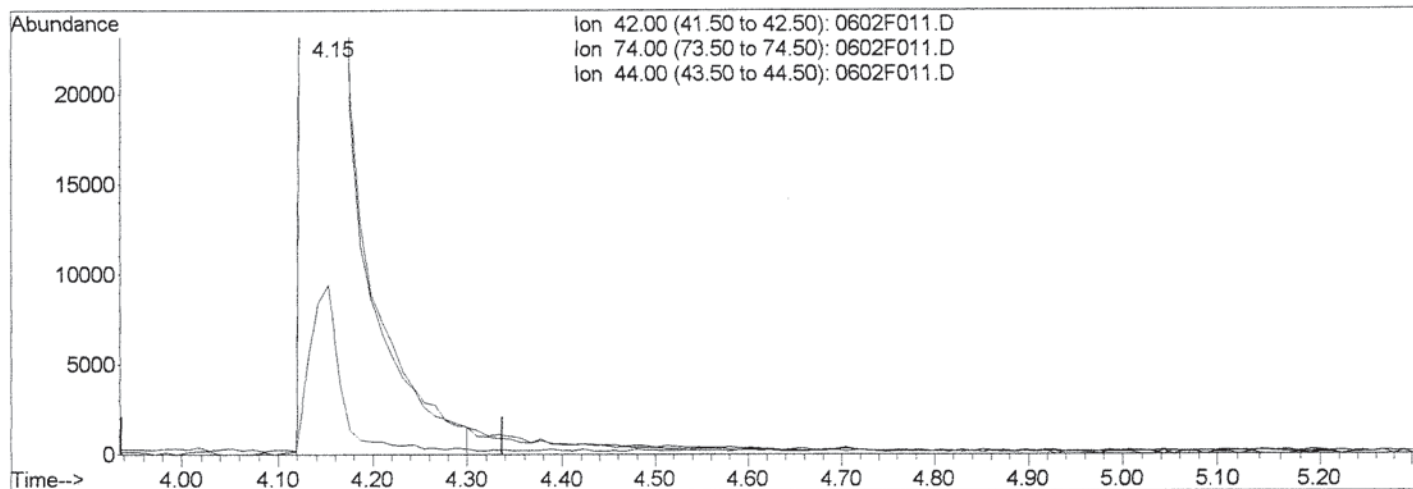
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

(2) N-Nitrosodimethylamine (T)

4.15min 166.82ug/ml

response 433435

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 84.43 |
| 44.00 | 4.40  | 4.43  |
| 0.00  | 0.00  | 0.00  |

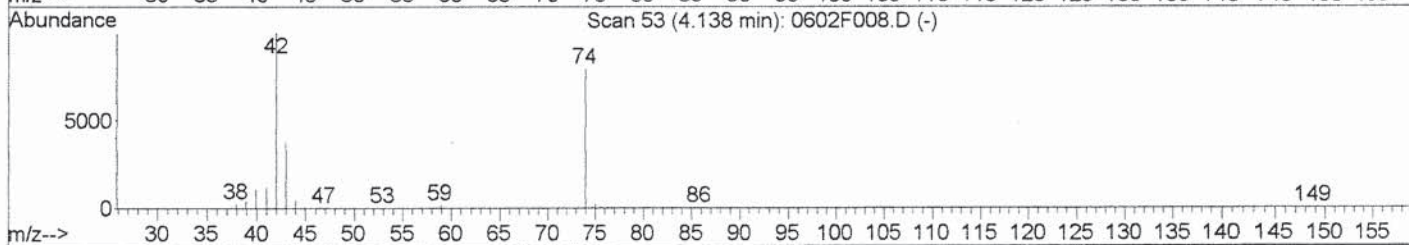
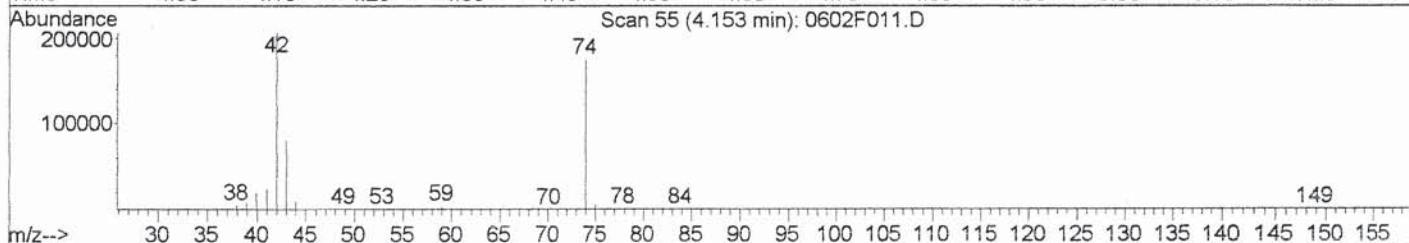
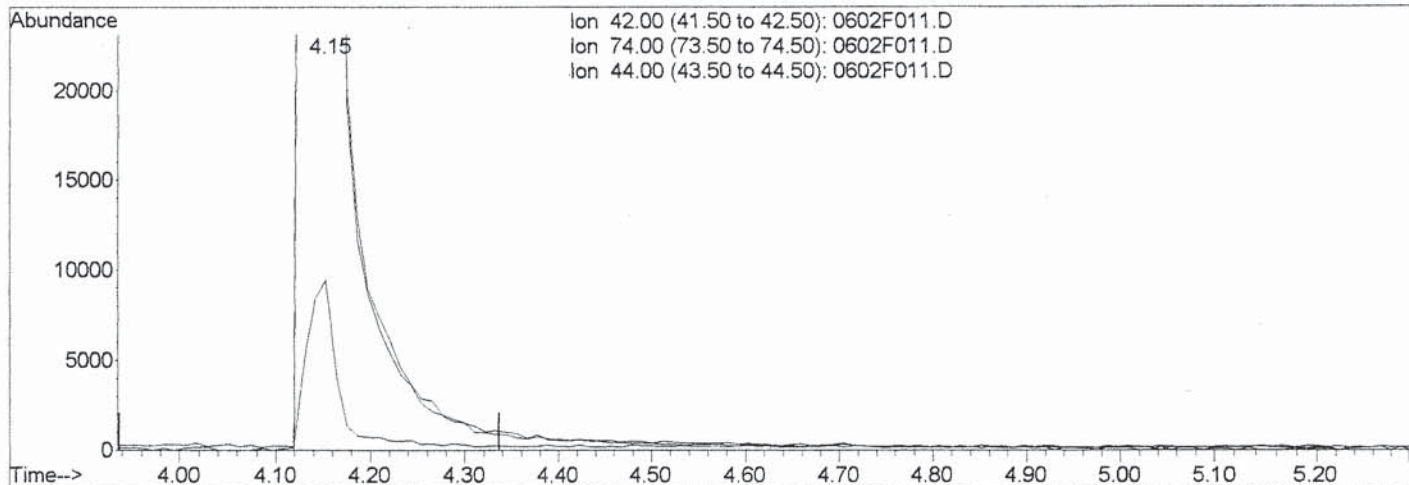
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:58 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

| (2) N-Nitrosodimethylamine (T) |               |       |
|--------------------------------|---------------|-------|
| 4.15min                        | 171.10ug/ml m |       |
| response                       | 444553        |       |
| Ion                            | Exp%          | Act%  |
| 42.00                          | 100           | 100   |
| 74.00                          | 79.30         | 84.49 |
| 44.00                          | 4.40          | 4.54  |
| 0.00                           | 0.00          | 0.00  |

*IC*  
*7-6-3-10*

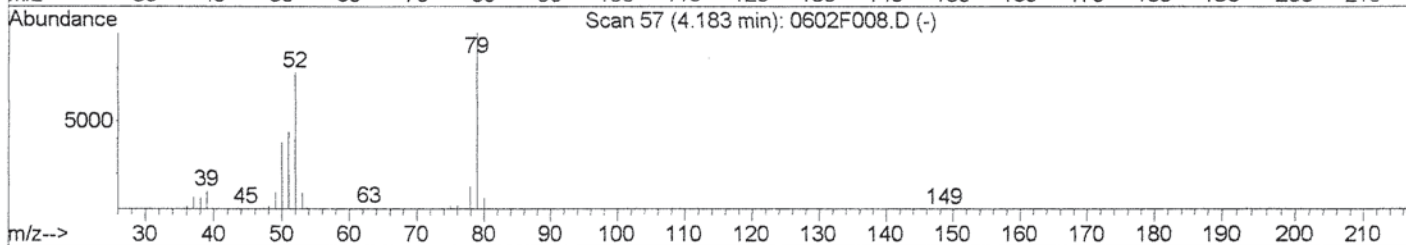
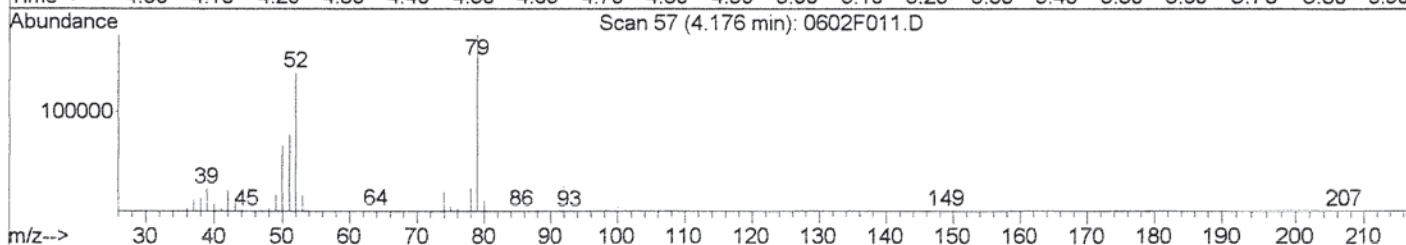
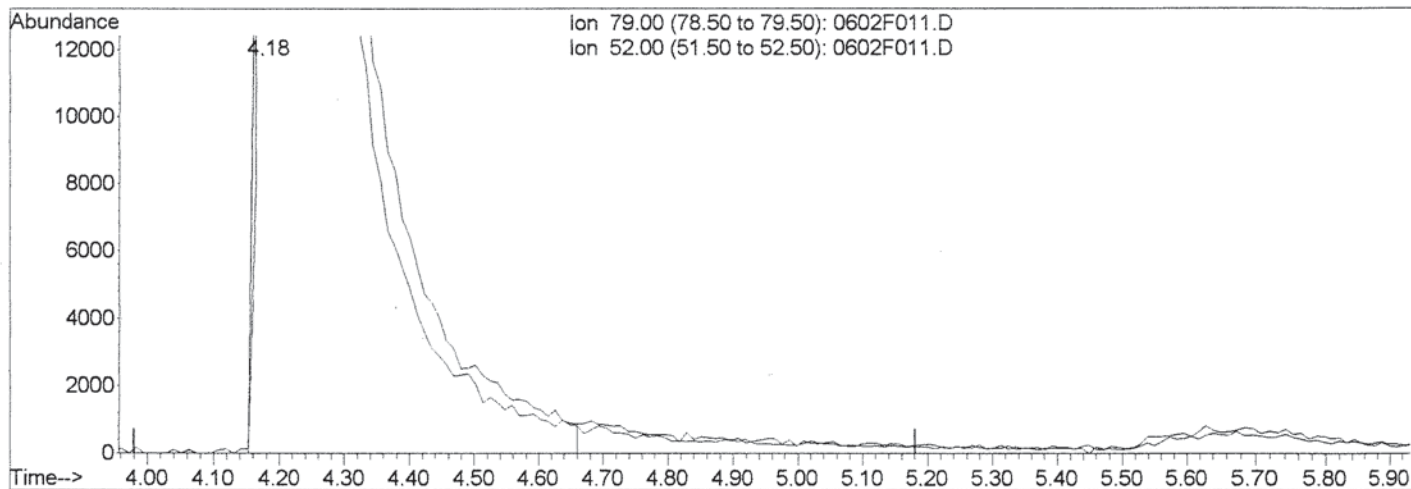
*LB*  
*4/4/10*

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:58 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

(3) Pyridine (T)

4.18min 164.71ug/ml

response 606392

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.27 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |



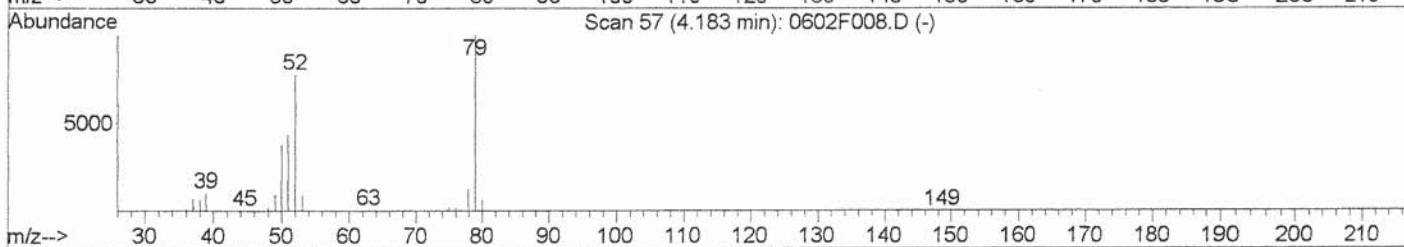
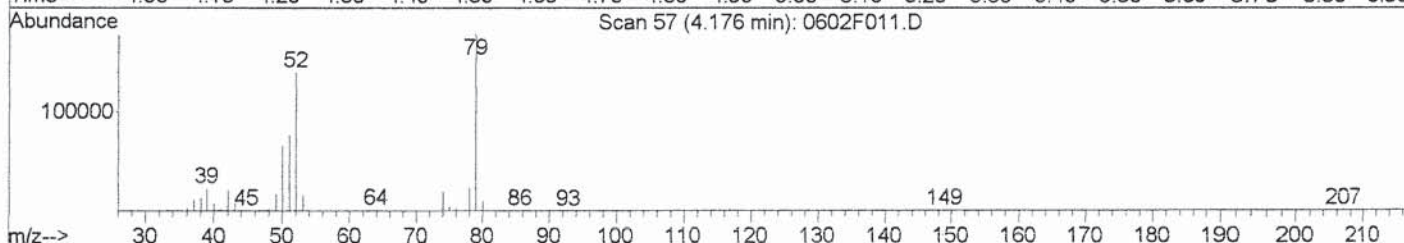
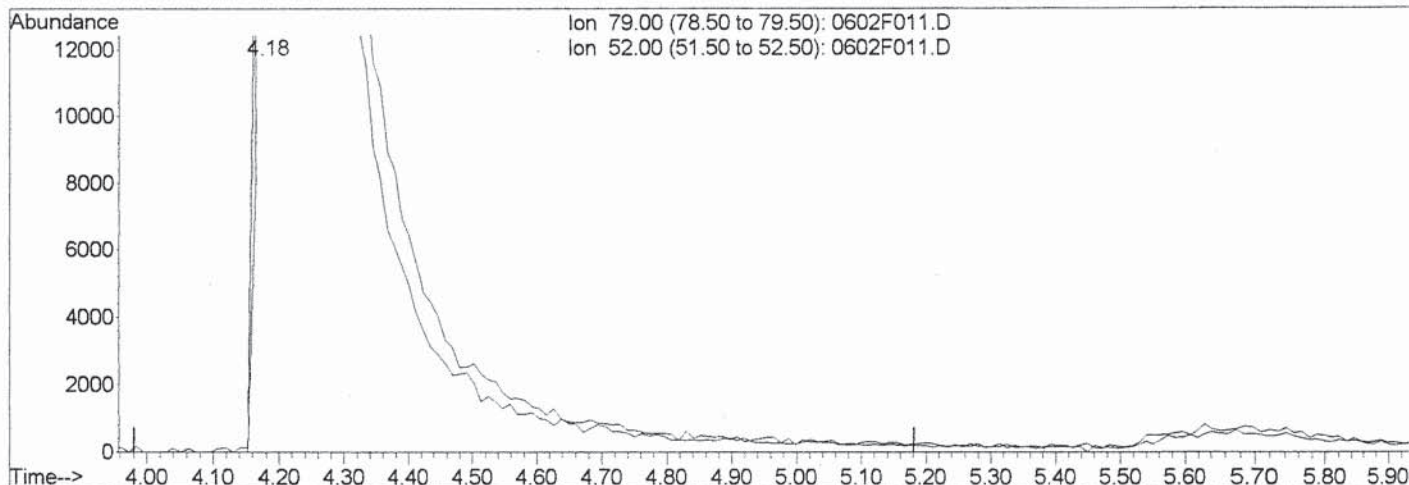
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:58 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

(3) Pyridine (T)

4.18min 169.11ug/ml m  
 response 622573

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.35 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes: FL 060210*

*Handwritten signature: LB 6/14/10*

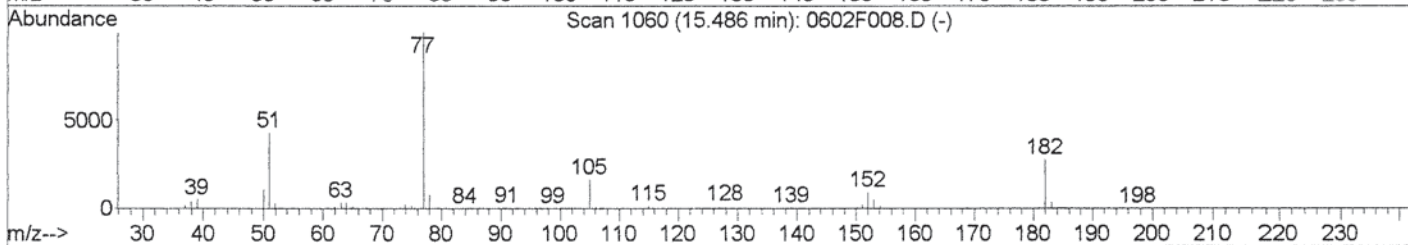
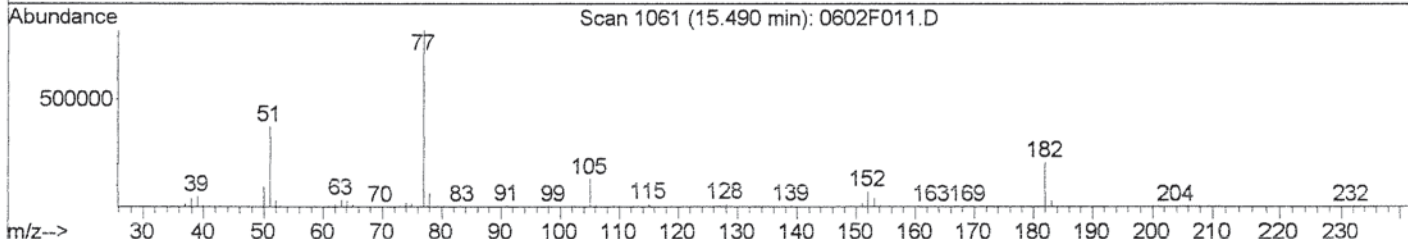
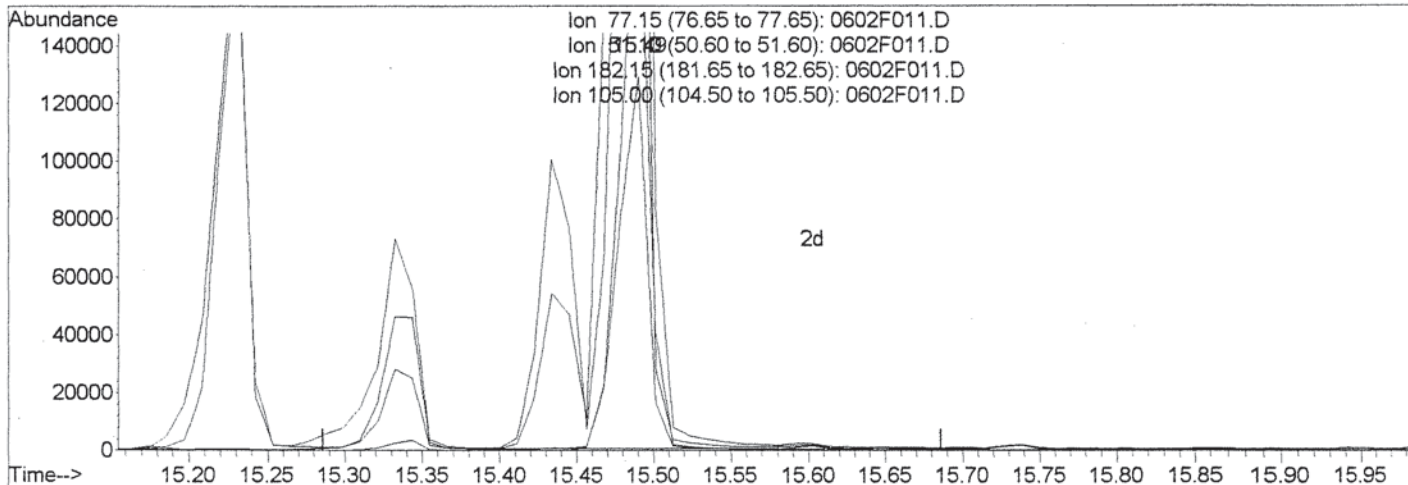
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:58 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

| (57) 1,2-Diphenylhydrazine (T) |             |       |
|--------------------------------|-------------|-------|
| 15.49min                       | 160.44ug/ml |       |
| response                       | 1186743     |       |
| Ion                            | Exp%        | Act%  |
| 77.15                          | 100         | 100   |
| 51.10                          | 43.10       | 44.86 |
| 182.15                         | 27.90       | 25.10 |
| 105.00                         | 16.60       | 15.56 |

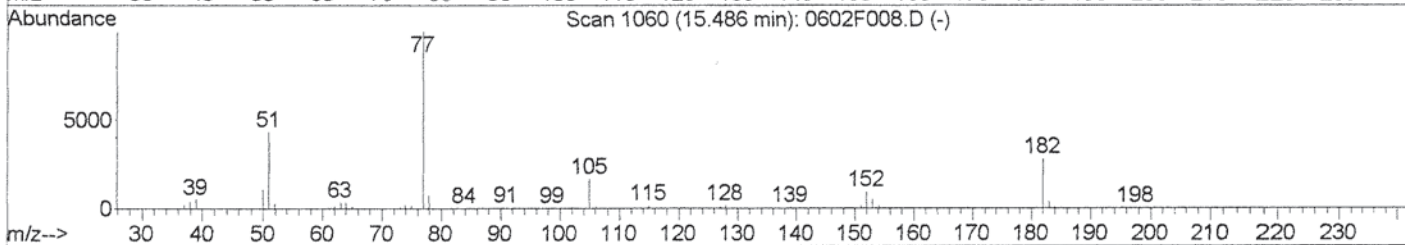
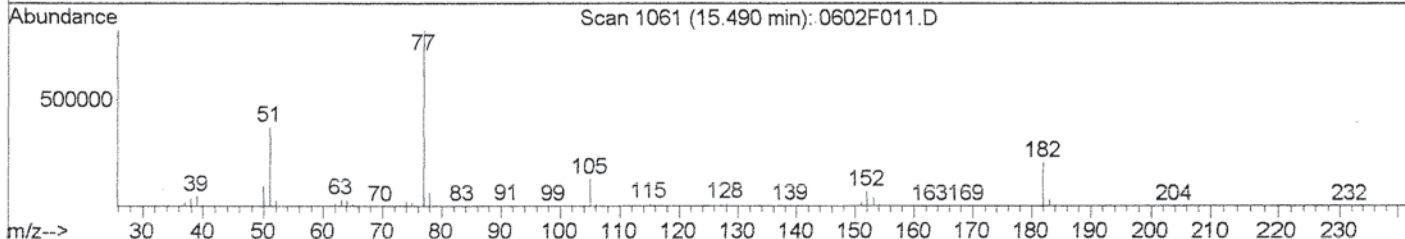
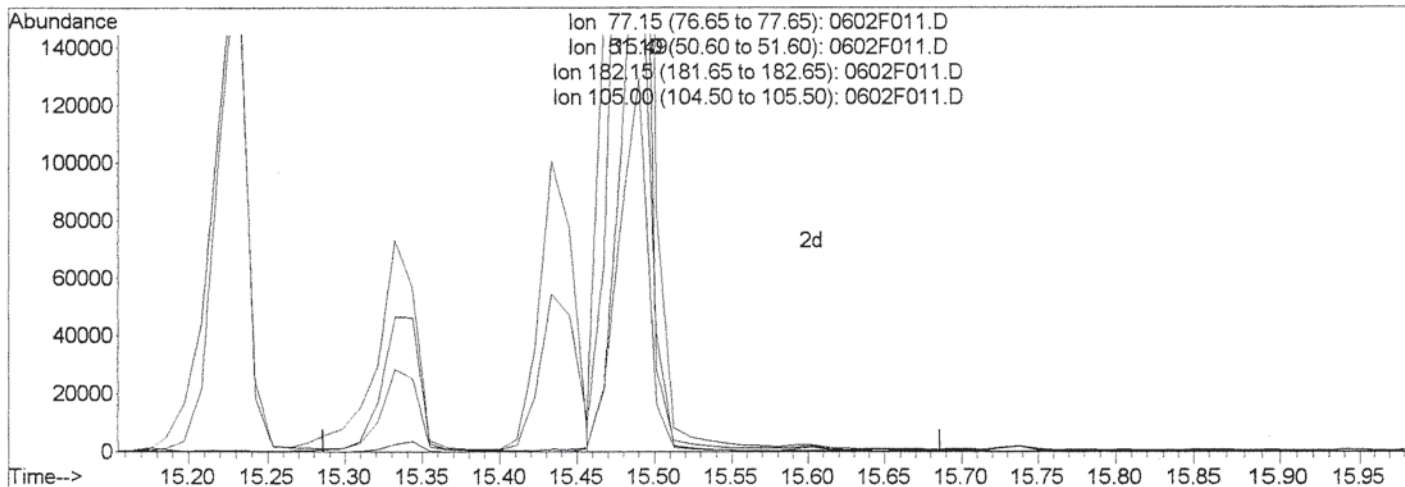
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F011.D  
 Acq On : 2 Jun 2010 10:00 pm  
 Sample : 160PPM 8270 ICAL SVM32-21J  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:59 2010

Vial: 9  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F011.D

| (57) 1,2-Diphenylhydrazine (T) |               |
|--------------------------------|---------------|
| 15.49min                       | 148.99ug/ml m |
| response                       | 1102059       |
| Ion                            | Exp% Act%     |
| 77.15                          | 100 100       |
| 51.10                          | 43.10 44.93   |
| 182.15                         | 27.90 25.08   |
| 105.00                         | 16.60 15.60   |

Handwritten notes: 06, 203-10, LB, 4/11/10



Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:55 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.35  | 152  | 116061   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.46 | 136  | 452844   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.31 | 164  | 221365   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.71 | 188  | 281460   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.15 | 240  | 298121   | 40.00 | ug/ml | 0.02     |
| 77) Perylene-d12          | 24.32 | 264  | 225296   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |       |          |          |       |          |
|--------------------------|---------|-------|----------|----------|-------|----------|
| 4) 2-Fluorophenol        | 7.14    | 112   | 642798   | 208.32   | ug/ml | 0.00     |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 138.88%# |
| 7) Phenol-d6             | 8.89    | 99    | 900056   | 209.14   | ug/ml | 0.02     |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 139.43%# |
| 19) Nitrobenzene-d5      | 10.31   | 82    | 872957   | 207.65   | ug/ml | 0.02     |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 207.65%# |
| 38) 2-Fluorobiphenyl     | 13.26   | 172   | 1456119  | 200.65   | ug/ml | 0.02     |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 200.65%# |
| 59) 2,4,6-Tribromophenol | 15.60   | 330   | 225426   | 197.60   | ug/ml | 0.00     |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 131.73%# |
| 71) Terphenyl-d14        | 19.33   | 244   | 931053   | 203.96   | ug/ml | 0.00     |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 203.96%# |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.14  | 42   | 578026m  | 209.10 | ug/ml |        |
| 3) Pyridine                    | 4.17  | 79   | 854297m  | 218.10 | ug/ml |        |
| 5) Aniline                     | 8.83  | 93   | 877450   | 201.72 | ug/ml | 65     |
| 6) Bis(2-chloroethyl) Ether    | 8.98  | 93   | 747933   | 211.14 | ug/ml | 98     |
| 8) Phenol                      | 8.91  | 94   | 941008   | 213.50 | ug/ml | 98     |
| 9) 2-Chlorophenol              | 9.03  | 128  | 788481   | 207.49 | ug/ml | 94     |
| 10) 1,3-Dichlorobenzene        | 9.25  | 146  | 792102   | 196.53 | ug/ml | 98     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146  | 790452   | 192.55 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.63  | 146  | 787448   | 202.65 | ug/ml | 99     |
| 13) Benzyl Alcohol             | 9.68  | 108  | 487083   | 208.69 | ug/ml | 96     |
| 14) Bis(2-chloroisopropyl) Eth | 9.87  | 45   | 1275373  | 219.05 | ug/ml | 93     |
| 15) 2-Methylphenol             | 9.89  | 107  | 559226   | 195.96 | ug/ml | 89     |
| 16) Hexachloroethane           | 10.18 | 117  | 342613   | 183.44 | ug/ml | 87     |
| 17) N-Nitrosodi-n-propylamine  | 10.12 | 70   | 589162   | 203.20 | ug/ml | 91     |
| 18) 4-Methylphenol             | 10.16 | 107  | 841682   | 194.21 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.34 | 77   | 772145   | 198.71 | ug/ml | 96     |
| 22) Isophorone                 | 10.77 | 82   | 1691139  | 207.02 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.86 | 139  | 491319   | 215.95 | ug/ml | 98     |
| 24) 2,4-Dimethylphenol         | 11.02 | 122  | 628211   | 208.72 | ug/ml | 97     |
| 25) Bis(2-chloroethoxy)methane | 11.13 | 93   | 952443   | 207.54 | ug/ml | 99     |

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

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:55 2010

Vial: 10  
 Operator: M. BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit   | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.29 | 162  | 686749   | 201.13 | ug/ml  | 97     |
| 27) Benzoic Acid               | 11.39 | 122  | 546017   | 211.68 | ug/ml  | 98     |
| 28) 1,2,4-Trichlorobenzene     | 11.38 | 180  | 688642   | 189.97 | ug/ml  | 99     |
| 29) Naphthalene                | 11.50 | 128  | 2001585  | 184.23 | ug/ml  | 98     |
| 30) 4-Chloroaniline            | 11.63 | 127  | 937251   | 195.53 | ug/ml  | 95     |
| 31) Hexachlorobutadiene        | 11.72 | 225  | 430003   | 186.97 | ug/ml  | 100    |
| 32) 4-Chloro-3-methylphenol    | 12.47 | 107  | 666276   | 186.93 | ug/ml# | 52     |
| 33) 2-Methylnaphthalene        | 12.63 | 142  | 1221574  | 176.70 | ug/ml  | 98     |
| 35) Hexachlorocyclopentadiene  | 12.89 | 237  | 485003   | 200.45 | ug/ml  | 98     |
| 36) 2,4,6-Trichlorophenol      | 13.12 | 196  | 472736   | 207.01 | ug/ml  | 98     |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 542628   | 213.23 | ug/ml  | 100    |
| 39) 2-Chloronaphthalene        | 13.42 | 162  | 1325997  | 207.12 | ug/ml  | 100    |
| 40) 2-Nitroaniline             | 13.63 | 65   | 396200   | 192.37 | ug/ml  | 97     |
| 41) Acenaphthylene             | 14.08 | 152  | 1969233  | 199.67 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.96 | 163  | 1340665  | 178.15 | ug/ml  | 100    |
| 43) 2,6-Dinitrotoluene         | 14.04 | 165  | 337116   | 197.68 | ug/ml  | 93     |
| 44) Acenaphthene               | 14.38 | 154  | 1087074  | 193.12 | ug/ml  | 99     |
| 45) 3-Nitroaniline             | 14.31 | 138  | 362314   | 201.92 | ug/ml  | 96     |
| 46) 2,4-Dinitrophenol          | 14.48 | 184  | 206903   | 209.10 | ug/ml  | 98     |
| 47) Dibenzofuran               | 14.66 | 168  | 1583306  | 178.39 | ug/ml  | 93     |
| 48) 4-Nitrophenol              | 14.66 | 109  | 203750   | 209.71 | ug/ml# | 84     |
| 49) 2,4-Dinitrotoluene         | 14.69 | 165  | 403304   | 186.60 | ug/ml  | 92     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.88 | 232  | 360129   | 194.10 | ug/ml  | 94     |
| 51) Fluorene                   | 15.21 | 166  | 1189053  | 178.78 | ug/ml  | 98     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 628997   | 184.74 | ug/ml  | 98     |
| 53) Diethyl Phthalate          | 15.11 | 149  | 1272424  | 174.90 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.32 | 138  | 319692   | 205.84 | ug/ml  | 96     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.34 | 198  | 226975   | 193.09 | ug/ml# | 35     |
| 56) N-Nitrosodiphenylamine     | 15.45 | 169  | 761443   | 171.71 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.49 | 77   | 1319201m | 175.00 | ug/ml  |        |
| 60) 4-Bromophenyl Phenyl Ether | 16.02 | 248  | 328541   | 193.61 | ug/ml  | 94     |
| 61) Hexachlorobenzene          | 16.10 | 284  | 385427   | 195.96 | ug/ml  | 83     |
| 62) Pentachlorophenol          | 16.44 | 266  | 238109   | 215.44 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.75 | 178  | 1423047  | 190.31 | ug/ml  | 100    |
| 64) Anthracene                 | 16.84 | 178  | 1497529  | 190.48 | ug/ml  | 99     |
| 65) Carbazole                  | 17.13 | 167  | 1313571  | 204.67 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.75 | 149  | 1759386  | 205.51 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.68 | 202  | 1547714  | 228.00 | ug/ml  | 97     |
| 69) Benzidine                  | 18.94 | 184  | 514176   | 205.41 | ug/ml  | 98     |
| 70) Pyrene                     | 19.04 | 202  | 1657705  | 208.33 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.17 | 149  | 1014128  | 223.65 | ug/ml  | 92     |

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

0602F012.D 0602BNC7.M

Thu Jun 03 11:34:36 2010

Page 2

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 10:48:55 2010

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc   | Unit  | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.14 | 252  | 599232   | 192.34 | ug/ml | 99     |
| 74) Benz(a)anthracene          | 21.13 | 228  | 1419495  | 202.60 | ug/ml | 100    |
| 75) Chrysene                   | 21.22 | 228  | 1368118  | 201.70 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.33 | 149  | 1353572  | 209.75 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.79 | 149  | 2229837  | 224.71 | ug/ml | 98     |
| 79) Benzo(b)fluoranthene       | 23.48 | 252  | 1300661  | 224.11 | ug/ml | 98     |
| 80) Benzo(k)fluoranthene       | 23.55 | 252  | 1320192  | 219.19 | ug/ml | 100    |
| 81) Benzo(a)pyrene             | 24.21 | 252  | 1003724  | 208.23 | ug/ml | 99     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.79 | 276  | 918704   | 220.07 | ug/ml | 100    |
| 83) Dibenz(a,h)anthracene      | 26.87 | 278  | 997110   | 224.23 | ug/ml | 98     |
| 84) Benzo(g,h,i)perylene       | 27.38 | 276  | 980529   | 217.60 | ug/ml | 99     |

LB  
 414110

M-3-10  
 6-3-10

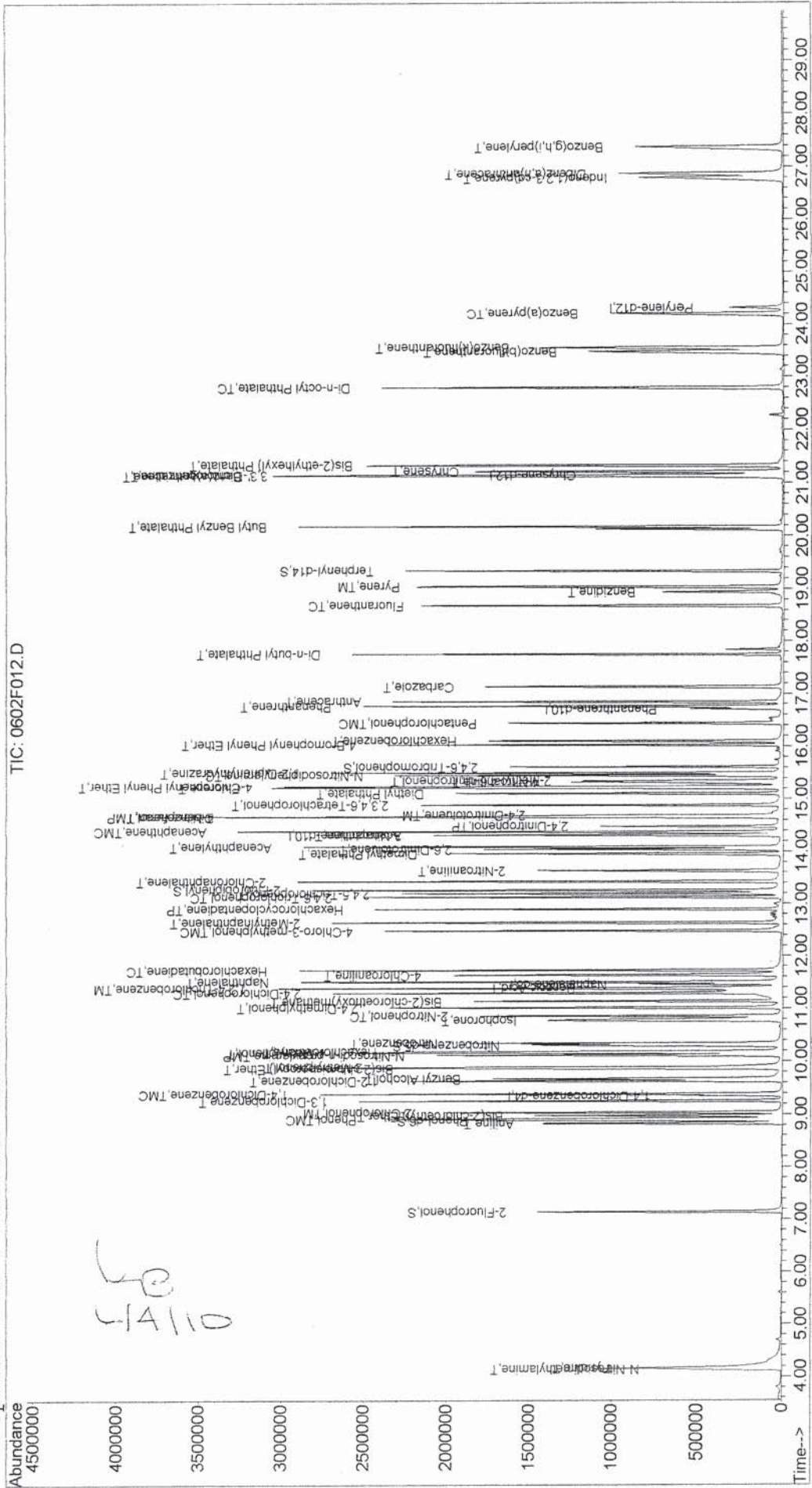


Data File : J:\MS07\DATA\060210\0602F012.D  
Acq On : 2 Jun 2010 10:40 pm  
Sample : 200PPM 8270 ICAL SVM32-21K  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 11:00 2010

Vial: 10  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx\_5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



4110

M.3-10

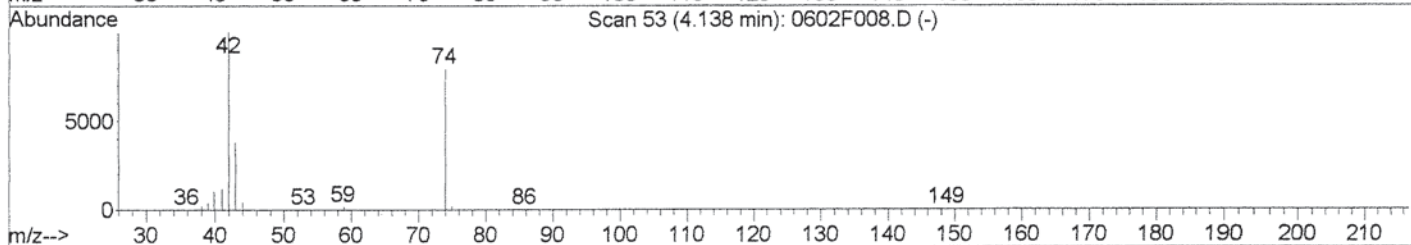
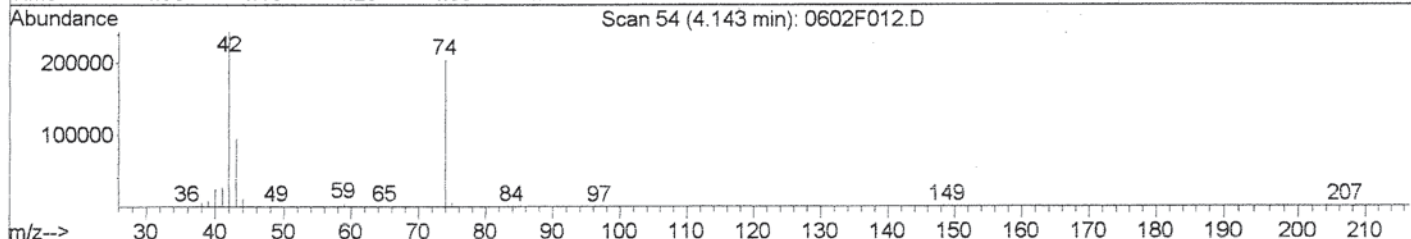
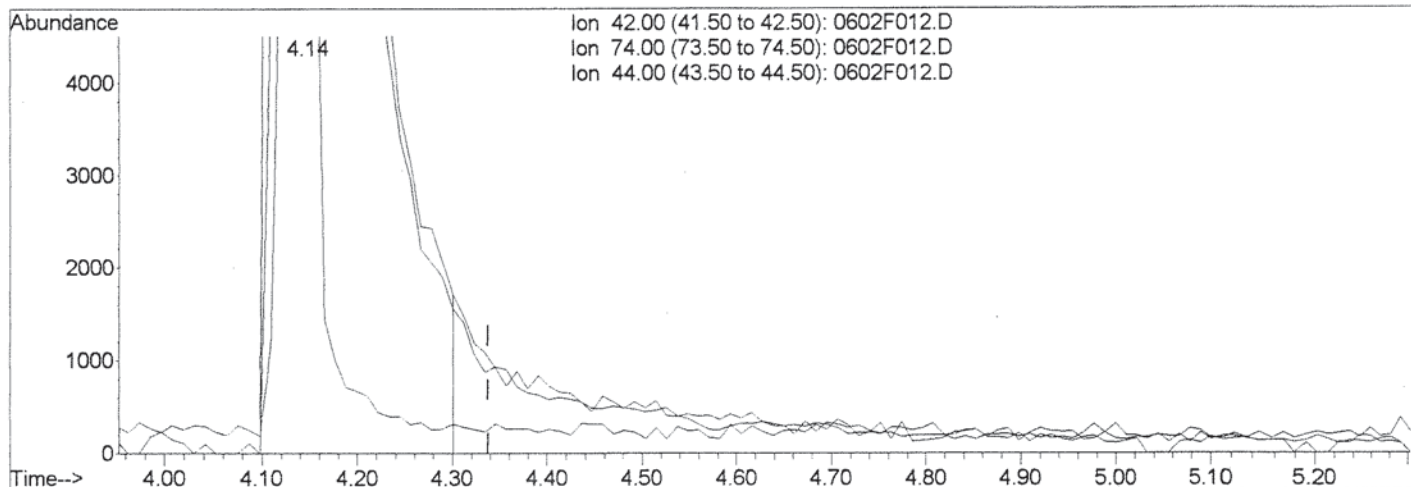
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:48 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

(2) N-Nitrosodimethylamine (T)

4.14min 202.99ug/ml

response 561118

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 83.71 |
| 44.00 | 4.40  | 4.58  |
| 0.00  | 0.00  | 0.00  |

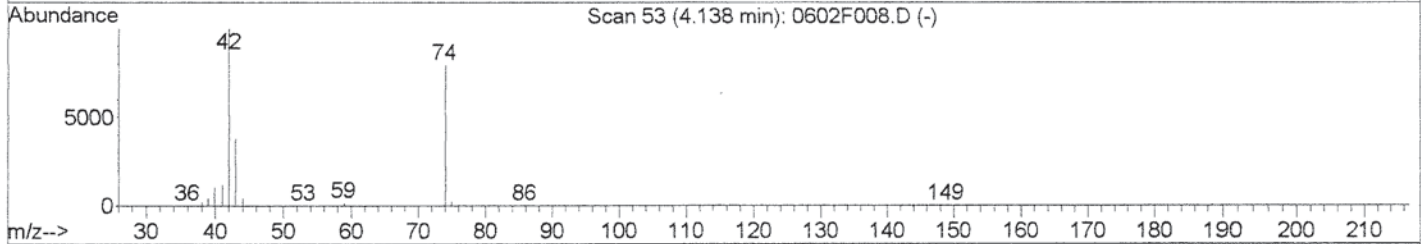
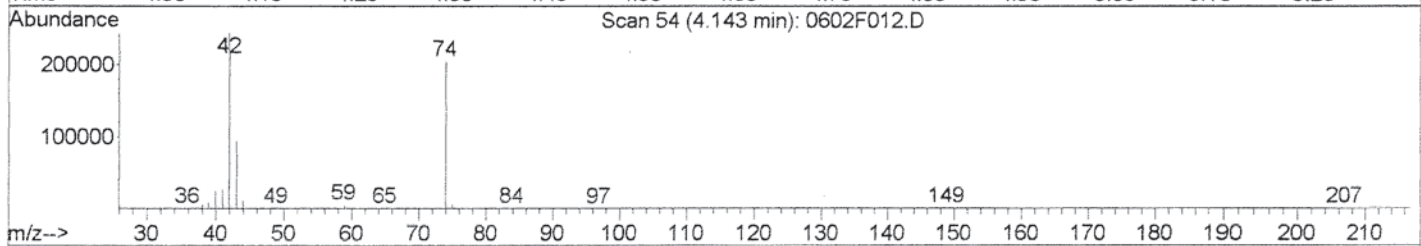
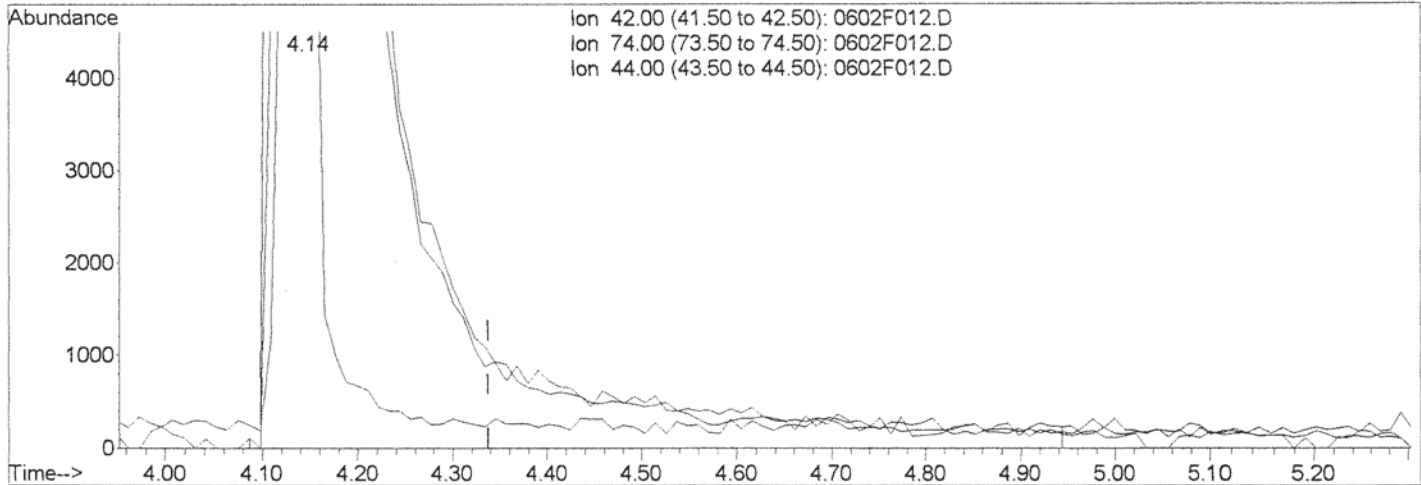
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:59 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

(2) N-Nitrosodimethylamine (T)

4.14min 209.10ug/ml m

response 578026

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 83.74 |
| 44.00 | 4.40  | 4.69  |
| 0.00  | 0.00  | 0.00  |

*5c*  
*M 6-3-10*

*LB*  
*414110*

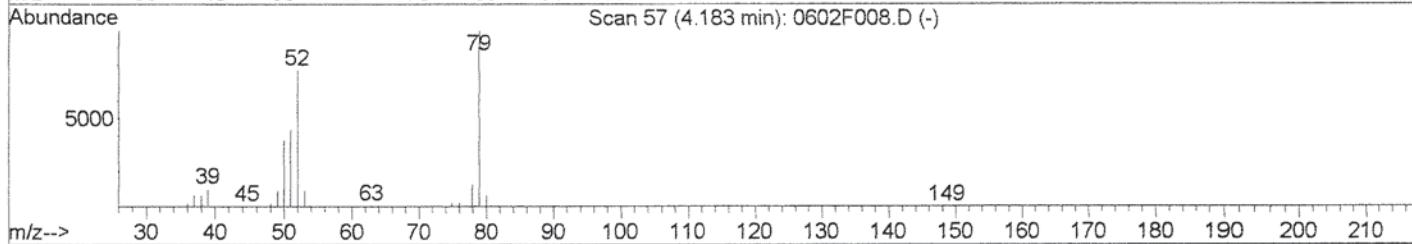
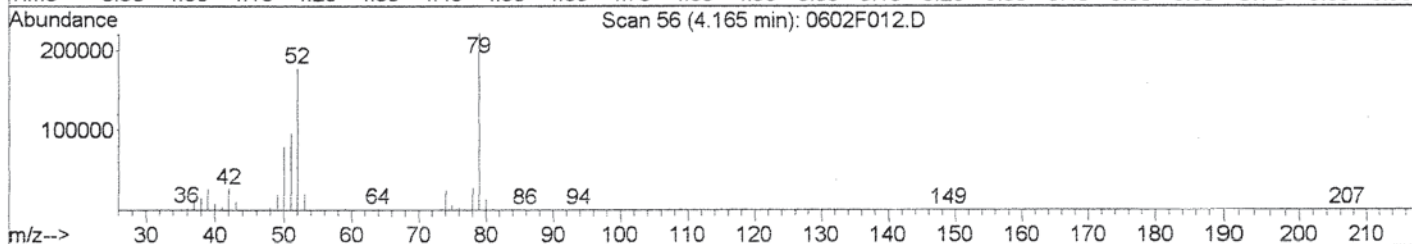
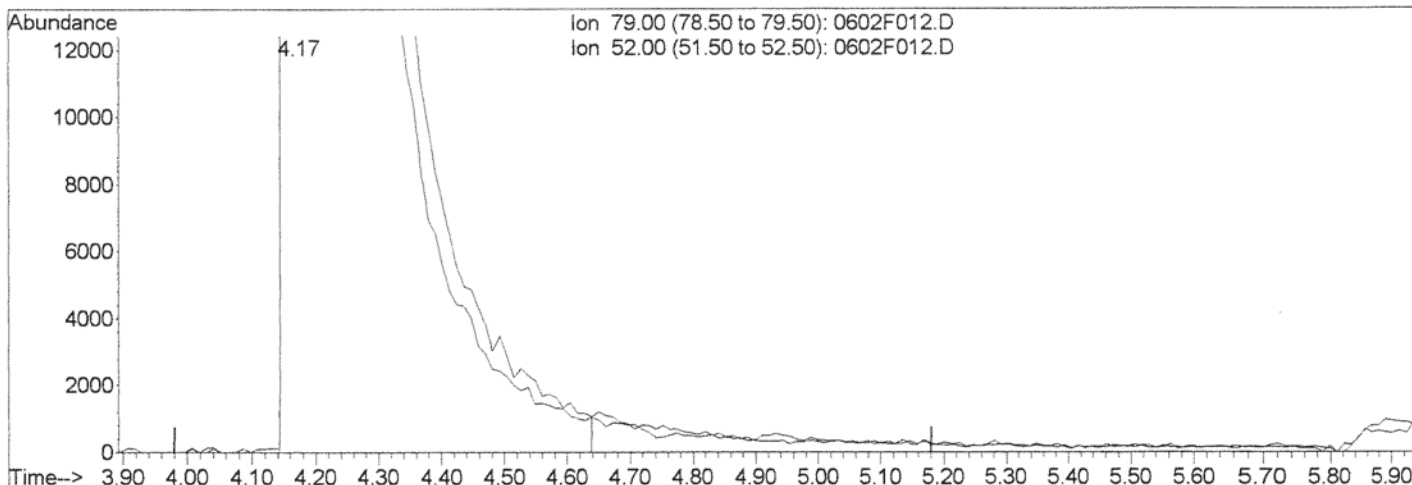


Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:59 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

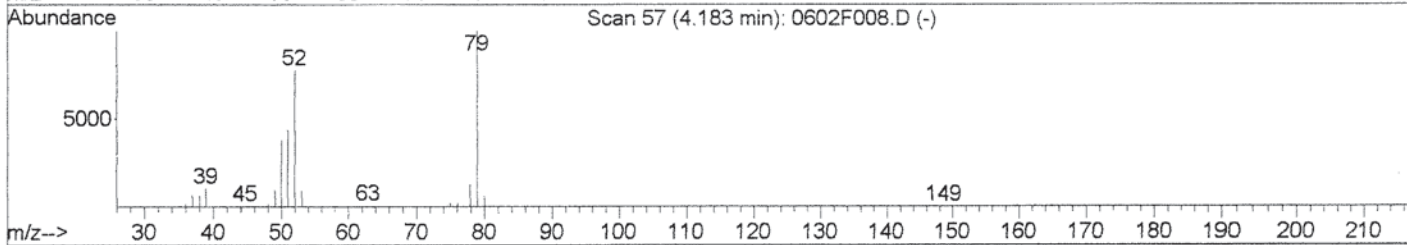
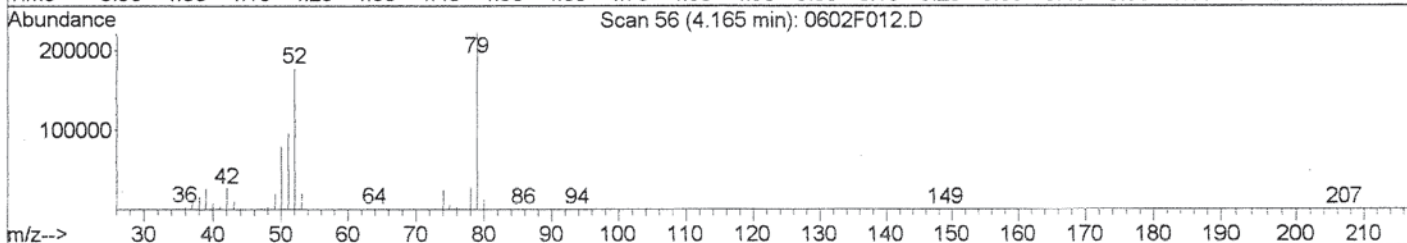
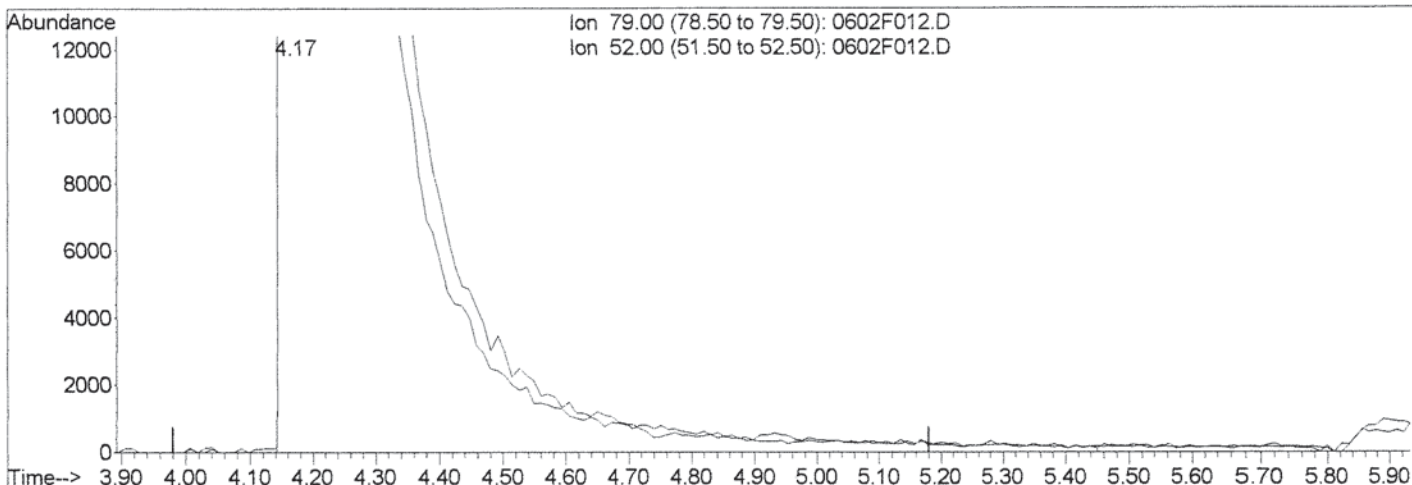
| (3) Pyridine (T) |             |       |
|------------------|-------------|-------|
| 4.17min          | 213.05ug/ml |       |
| response         | 834499      |       |
| Ion              | Exp%        | Act%  |
| 79.00            | 100         | 100   |
| 52.00            | 77.00       | 79.62 |
| 0.00             | 0.00        | 0.00  |
| 0.00             | 0.00        | 0.00  |

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:59 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

| (3) Pyridine (T) |               |       |
|------------------|---------------|-------|
| 4.17min          | 218.10ug/ml m |       |
| response         | 854297        |       |
| Ion              | Exp%          | Act%  |
| 79.00            | 100           | 100   |
| 52.00            | 77.00         | 79.70 |
| 0.00             | 0.00          | 0.00  |
| 0.00             | 0.00          | 0.00  |

*IC*  
*M 6-3-10*

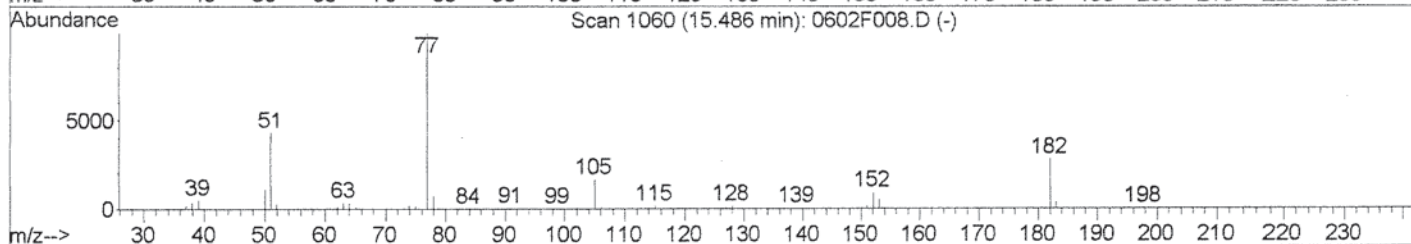
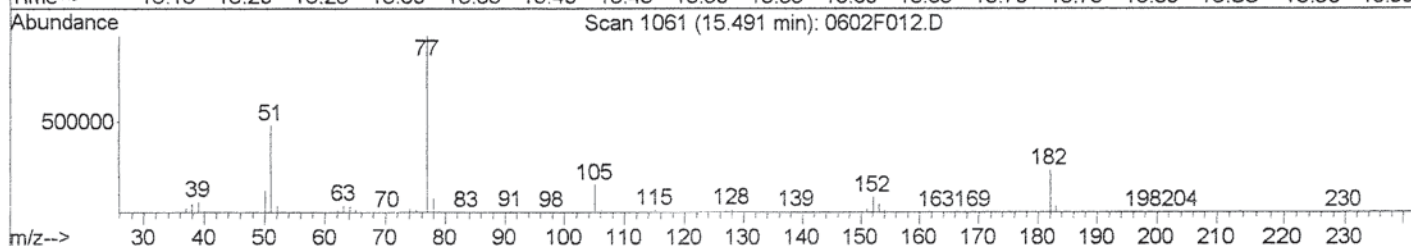
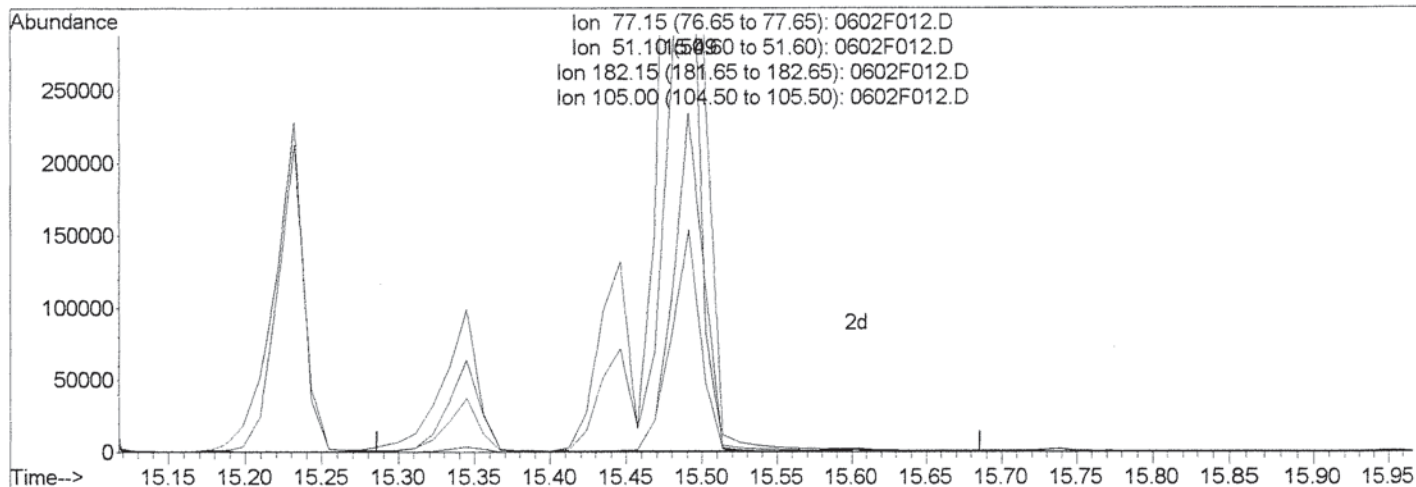
*LB*  
*4/4/10*

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 10:59 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

(57) 1,2-Diphenylhydrazine (T)

15.49min 188.68ug/ml

response 1422282

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 77.15  | 100   | 100   |
| 51.10  | 43.10 | 48.70 |
| 182.15 | 27.90 | 23.80 |
| 105.00 | 16.60 | 15.60 |



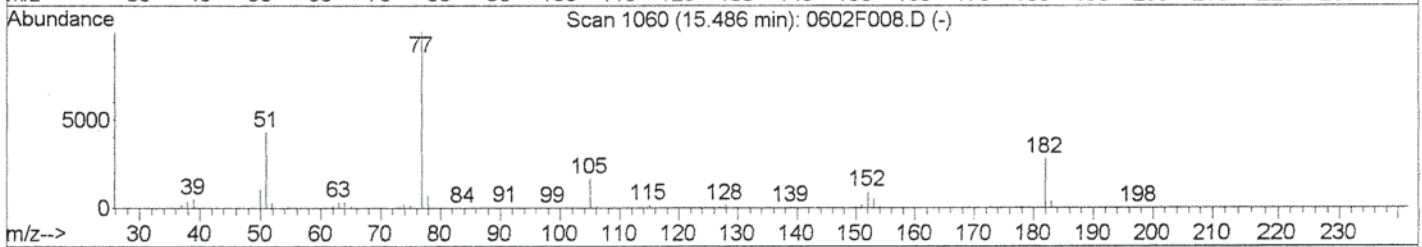
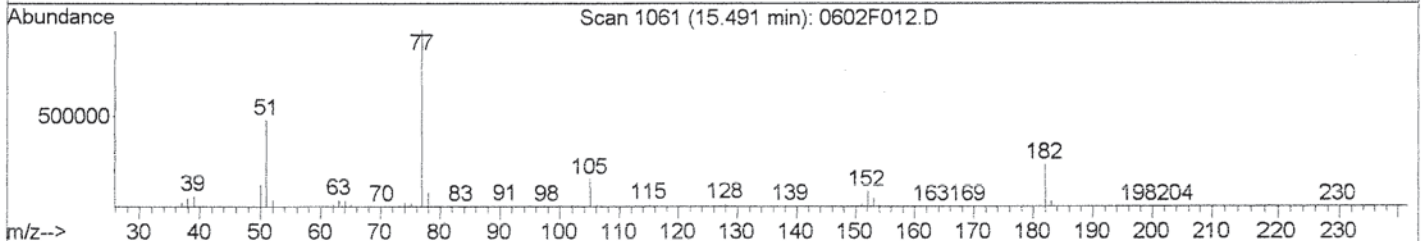
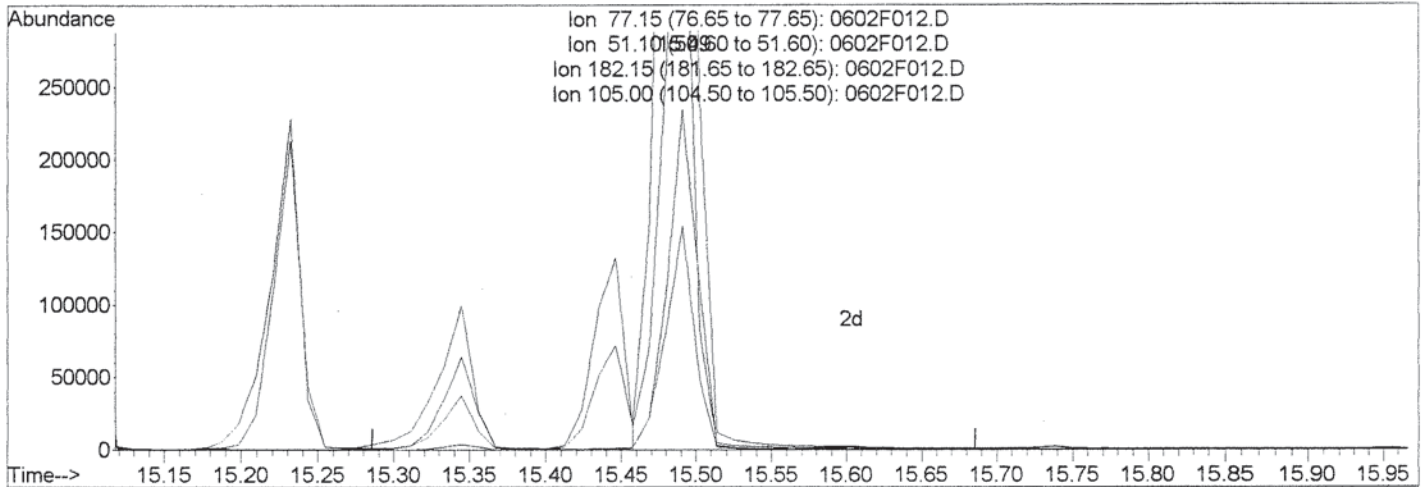
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F012.D  
 Acq On : 2 Jun 2010 10:40 pm  
 Sample : 200PPM 8270 ICAL SVM32-21K  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 11:00 2010

Vial: 10  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 10:48:31 2010  
 Response via : Multiple Level Calibration



TIC: 0602F012.D

(57) 1,2-Diphenylhydrazine (T)

15.49min 175.00ug/ml m

response 1319201

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 77.15  | 100   | 100   |
| 51.10  | 43.10 | 48.76 |
| 182.15 | 27.90 | 23.78 |
| 105.00 | 16.60 | 15.64 |

*Handwritten notes:* 05 MB-3-10

*Handwritten signature:* LB 4/11/10

Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 11:06:24 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.34  | 152  | 157981   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 589143   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.30 | 164  | 263507   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 329343   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 359499   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.31 | 264  | 274717   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |                |     |            |        |       |       |
|--------------------------|----------------|-----|------------|--------|-------|-------|
| 4) 2-Fluorophenol        | 7.13           | 112 | 352056     | 83.82  | ug/ml | 0.00  |
| Spiked Amount 150.000    | Range 21 - 100 |     | Recovery = | 55.88% |       |       |
| 7) Phenol-d6             | 8.87           | 99  | 480612     | 82.05  | ug/ml | 0.00  |
| Spiked Amount 150.000    | Range 10 - 94  |     | Recovery = | 54.70% |       |       |
| 19) Nitrobenzene-d5      | 10.29          | 82  | 439915     | 76.88  | ug/ml | 0.00  |
| Spiked Amount 100.000    | Range 35 - 114 |     | Recovery = | 76.88% |       |       |
| 38) 2-Fluorobiphenyl     | 13.24          | 172 | 709474     | 82.13  | ug/ml | 0.00  |
| Spiked Amount 100.000    | Range 43 - 116 |     | Recovery = | 82.13% |       |       |
| 59) 2,4,6-Tribromophenol | 15.60          | 330 | 98880      | 74.07  | ug/ml | 0.00  |
| Spiked Amount 150.000    | Range 10 - 123 |     | Recovery = | 49.38% |       |       |
| 71) Terphenyl-d14        | 19.32          | 244 | 384726     | 69.89  | ug/ml | -0.01 |
| Spiked Amount 100.000    | Range 33 - 141 |     | Recovery = | 69.89% |       |       |

Target Compounds

|                                |       |     |         |       |       | Qvalue |
|--------------------------------|-------|-----|---------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.13  | 42  | 288259m | 76.38 | ug/ml |        |
| 3) Pyridine                    | 4.16  | 79  | 471901m | 88.22 | ug/ml |        |
| 6) Bis(2-chloroethyl) Ether    | 8.96  | 93  | 404665  | 84.71 | ug/ml | 96     |
| 8) Phenol                      | 8.89  | 94  | 516946  | 86.18 | ug/ml | 98     |
| 9) 2-Chlorophenol              | 9.02  | 128 | 428586  | 82.85 | ug/ml | 98     |
| 10) 1,3-Dichlorobenzene        | 9.24  | 146 | 432675  | 78.87 | ug/ml | 99     |
| 11) 1,4-Dichlorobenzene        | 9.38  | 146 | 450299  | 80.59 | ug/ml | 99     |
| 12) 1,2-Dichlorobenzene        | 9.62  | 146 | 437025  | 82.62 | ug/ml | 99     |
| 13) Benzyl Alcohol             | 9.66  | 108 | 279227  | 87.89 | ug/ml | 94     |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45  | 708097  | 89.35 | ug/ml | 86     |
| 15) 2-Methylphenol             | 9.87  | 107 | 312967  | 80.57 | ug/ml | 99     |
| 16) Hexachloroethane           | 10.18 | 117 | 206278  | 81.14 | ug/ml | 97     |
| 17) N-Nitrosodi-n-propylamine  | 10.10 | 70  | 299786  | 77.10 | ug/ml | 96     |
| 18) 4-Methylphenol             | 10.14 | 107 | 496368  | 84.14 | ug/ml | 100    |
| 20) Nitrobenzene               | 10.32 | 77  | 426035  | 79.15 | ug/ml | 98     |
| 22) Isophorone                 | 10.74 | 82  | 808264  | 76.05 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.84 | 139 | 240573  | 82.15 | ug/ml | 96     |
| 24) 2,4-Dimethylphenol         | 11.00 | 122 | 325418  | 83.11 | ug/ml | 94     |
| 25) Bis(2-chloroethoxy)methane | 11.12 | 93  | 511818  | 85.73 | ug/ml | 99     |
| 26) 2,4-Dichlorophenol         | 11.27 | 162 | 360053  | 81.05 | ug/ml | 99     |

(#) = qualifier out of range (m) = manual integration  
 0602F013.D 0602BNC7.M Thu Jun 03 11:34:37 2010

6-2-10



Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 11:06:24 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 27) Benzoic Acid               | 11.32 | 122  | 261223   | 77.84 | ug/ml  | 97     |
| 28) 1,2,4-Trichlorobenzene     | 11.37 | 180  | 378122   | 80.18 | ug/ml  | 98     |
| 29) Naphthalene                | 11.48 | 128  | 1133311  | 80.18 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.62 | 127  | 462290   | 74.13 | ug/ml  | 94     |
| 31) Hexachlorobutadiene        | 11.71 | 225  | 238764   | 79.80 | ug/ml  | 99     |
| 32) 4-Chloro-3-methylphenol    | 12.46 | 107  | 338233   | 72.94 | ug/ml# | 53     |
| 33) 2-Methylnaphthalene        | 12.62 | 142  | 661531   | 73.55 | ug/ml  | 100    |
| 35) Hexachlorocyclopentadiene  | 12.88 | 237  | 171811   | 64.56 | ug/ml  | 97     |
| 36) 2,4,6-Trichlorophenol      | 13.11 | 196  | 234694   | 86.34 | ug/ml  | 96     |
| 37) 2,4,5-Trichlorophenol      | 13.19 | 196  | 245630   | 81.09 | ug/ml  | 100    |
| 39) 2-Chloronaphthalene        | 13.41 | 162  | 648374   | 85.08 | ug/ml  | 98     |
| 40) 2-Nitroaniline             | 13.61 | 65   | 190743   | 77.80 | ug/ml  | 96     |
| 41) Acenaphthylene             | 14.08 | 152  | 795724   | 67.78 | ug/ml  | 100    |
| 42) Dimethyl Phthalate         | 13.94 | 163  | 631928   | 70.54 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 151624   | 74.69 | ug/ml  | 92     |
| 44) Acenaphthene               | 14.36 | 154  | 515713   | 76.97 | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.29 | 138  | 154301   | 72.24 | ug/ml  | 97     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 92573    | 78.59 | ug/ml  | 94     |
| 47) Dibenzofuran               | 14.64 | 168  | 791536   | 74.92 | ug/ml  | 96     |
| 48) 4-Nitrophenol              | 14.64 | 109  | 87062    | 75.28 | ug/ml# | 68     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 171360   | 66.61 | ug/ml  | 72     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 153545   | 69.52 | ug/ml# | 78     |
| 51) Fluorene                   | 15.20 | 166  | 564836   | 71.34 | ug/ml  | 98     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.23 | 204  | 282899   | 69.80 | ug/ml  | 99     |
| 53) Diethyl Phthalate          | 15.09 | 149  | 602830   | 69.61 | ug/ml  | 98     |
| 54) 4-Nitroaniline             | 15.28 | 138  | 149019   | 80.61 | ug/ml  | 96     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.33 | 198  | 115758   | 82.73 | ug/ml  | 86     |
| 56) N-Nitrosodiphenylamine     | 15.43 | 169  | 344176   | 65.20 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 640947   | 72.01 | ug/ml  | 94     |
| 60) 4-Bromophenyl Phenyl Ether | 16.01 | 248  | 154168   | 77.64 | ug/ml  | 97     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 175262   | 76.15 | ug/ml  | 97     |
| 62) Pentachlorophenol          | 16.43 | 266  | 102290   | 79.09 | ug/ml  | 97     |
| 63) Phenanthrene               | 16.75 | 178  | 706354   | 80.73 | ug/ml  | 100    |
| 64) Anthracene                 | 16.83 | 178  | 683892   | 74.34 | ug/ml  | 100    |
| 65) Carbazole                  | 17.12 | 167  | 615984   | 82.03 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.74 | 149  | 830450   | 82.90 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 633419   | 79.84 | ug/ml  | 99     |
| 70) Pyrene                     | 19.02 | 202  | 650428   | 67.79 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.16 | 149  | 434417   | 79.45 | ug/ml  | 100    |
| 73) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 282579   | 75.22 | ug/ml  | 99     |
| 74) Benz(a)anthracene          | 21.11 | 228  | 622914   | 73.73 | ug/ml  | 99     |

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

*Handwritten:* 6-3-10  
 LAB  
 LIATIO



Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 11:06:24 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 75) Chrysene                   | 21.19 | 228  | 632981   | 77.39 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.31 | 149  | 647030   | 83.15 | ug/ml | 100    |
| 78) Di-n-octyl Phthalate       | 22.78 | 149  | 1138544  | 87.36 | ug/ml | 100    |
| 79) Benzo(b)fluoranthene       | 23.45 | 252  | 583521   | 82.45 | ug/ml | 99     |
| 80) Benzo(k)fluoranthene       | 23.52 | 252  | 612904   | 83.45 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.18 | 252  | 562098   | 95.63 | ug/ml | 98     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.77 | 276  | 417715   | 82.06 | ug/ml | 97     |
| 83) Dibenz(a,h)anthracene      | 26.84 | 278  | 431654   | 79.61 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.34 | 276  | 437301   | 79.59 | ug/ml | 100    |

LB  
 6/3/10

(#) = qualifier out of range (m) = manual integration  
 0602F013.D 0602BNC7.M Thu Jun 03 11:34:37 2010

M  
 6-3-10



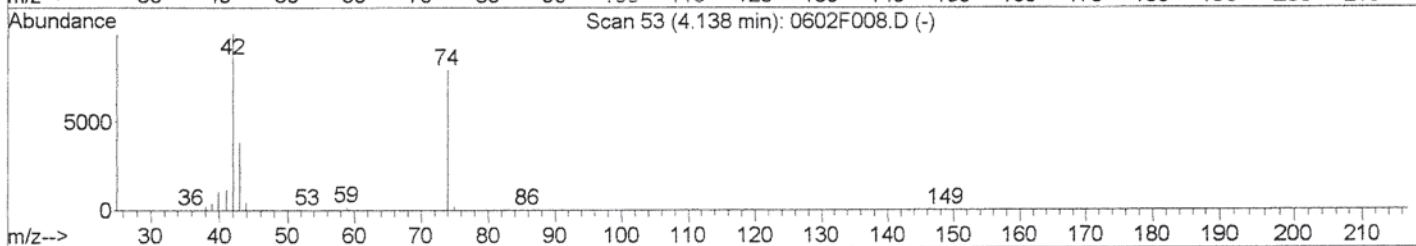
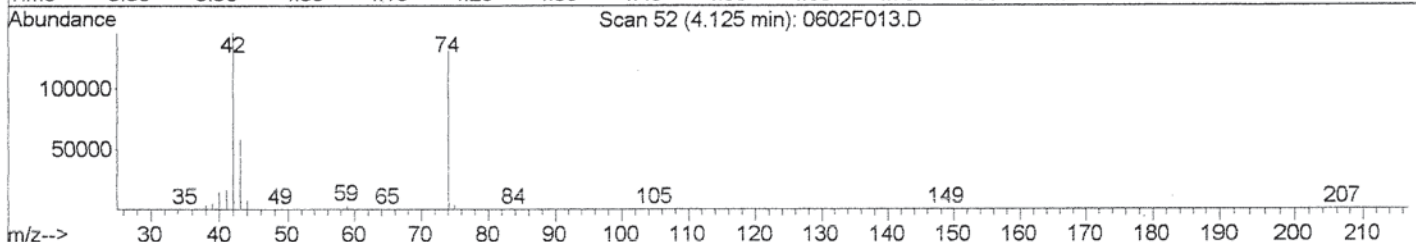
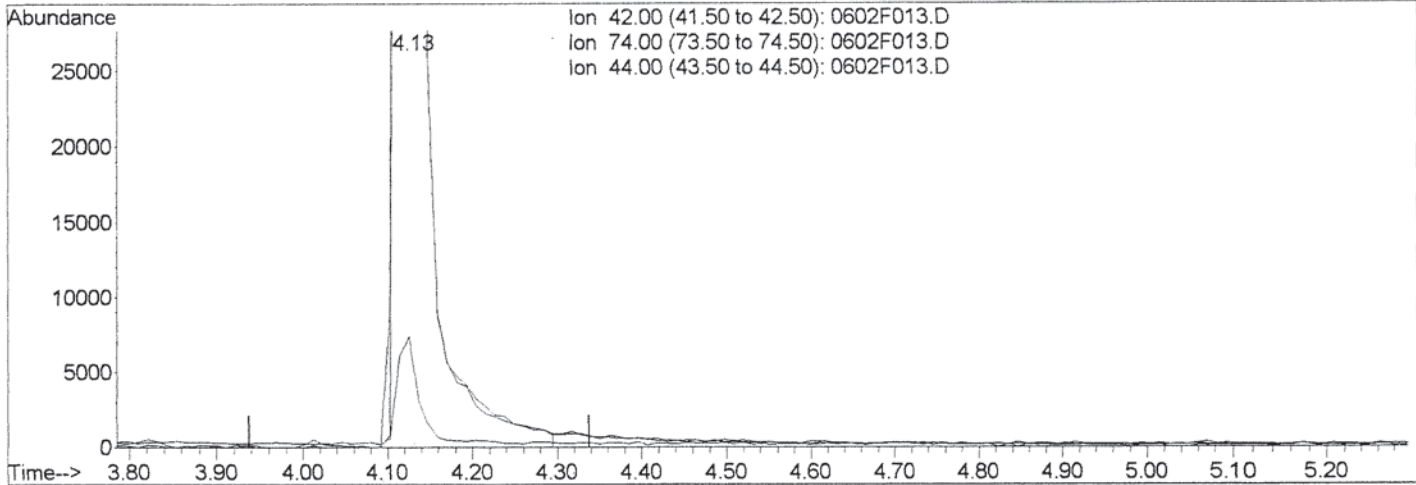
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 11:06 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Multiple Level Calibration



TIC: 0602F013.D

(2) N-Nitrosodimethylamine (T)

4.13min 73.83ug/ml

response 278639

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 89.65 |
| 44.00 | 4.40  | 4.82  |
| 0.00  | 0.00  | 0.00  |



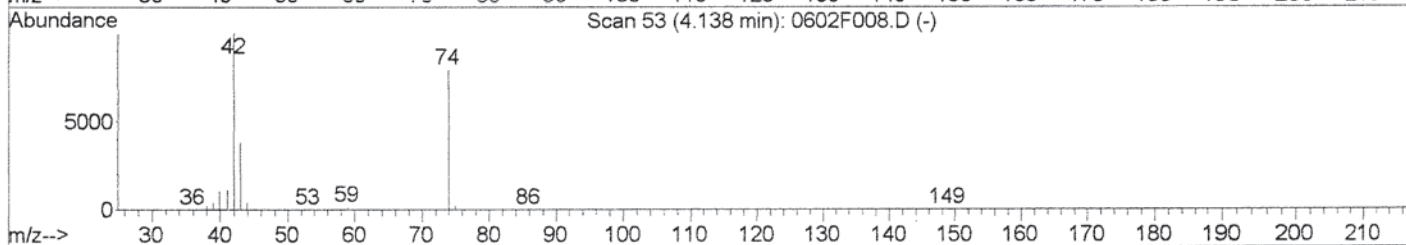
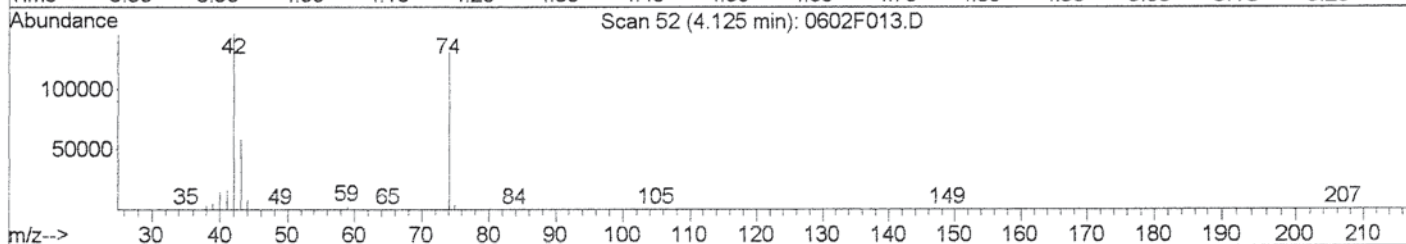
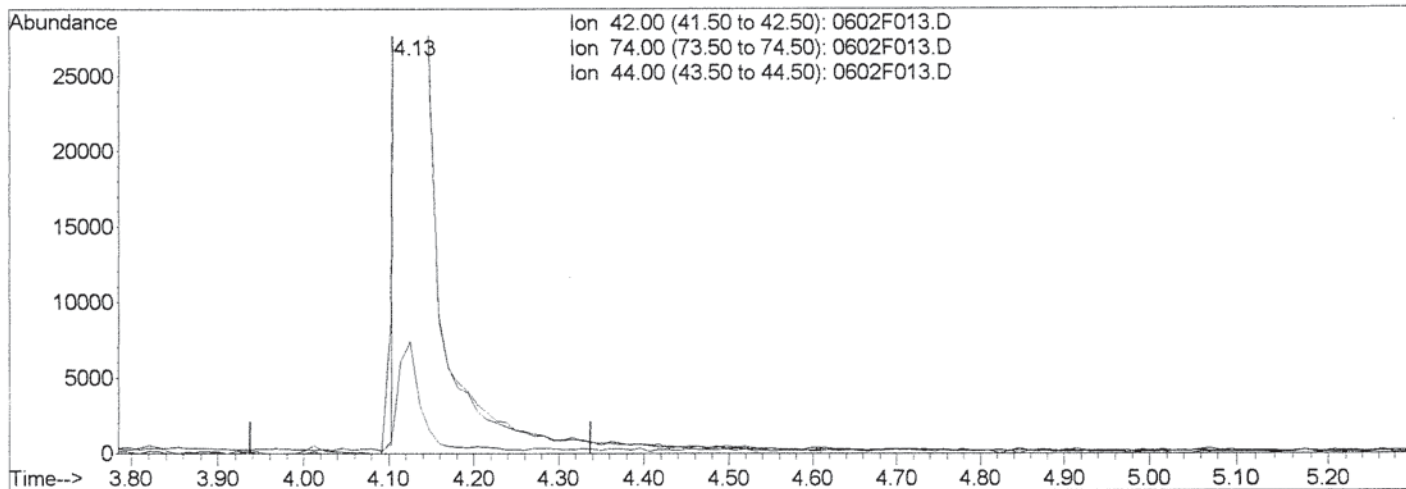
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 11:09 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Multiple Level Calibration



TIC: 0602F013.D

(2) N-Nitrosodimethylamine (T)

4.13min 76.38ug/ml m

response 288259

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 89.65 |
| 44.00 | 4.40  | 5.02  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes: SC, 76-3-10*

*Handwritten signature: LB 4/11/10*

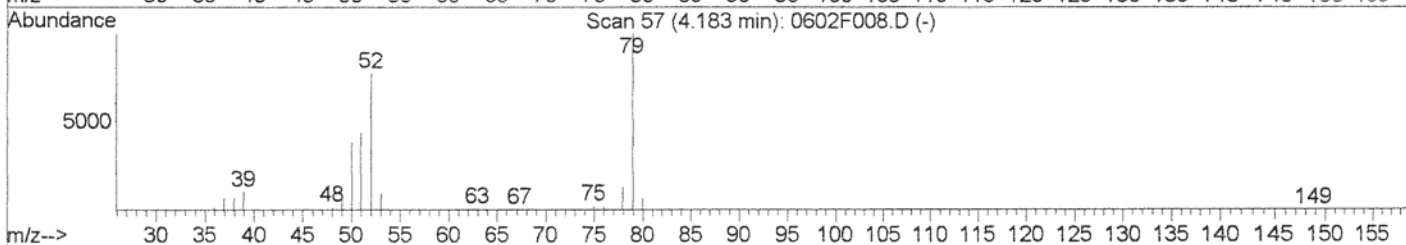
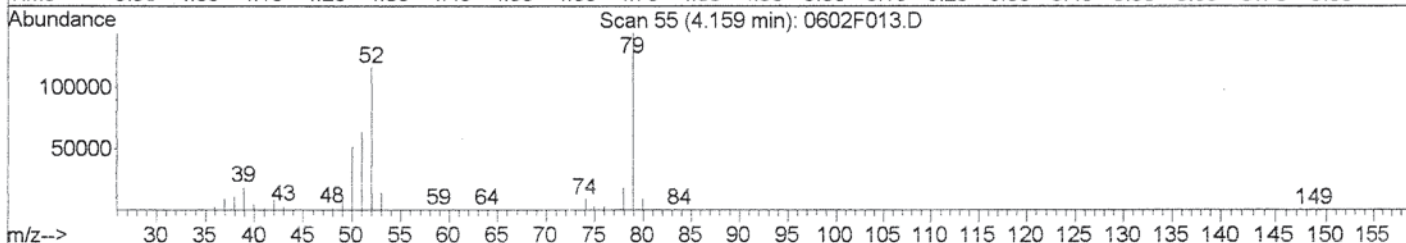
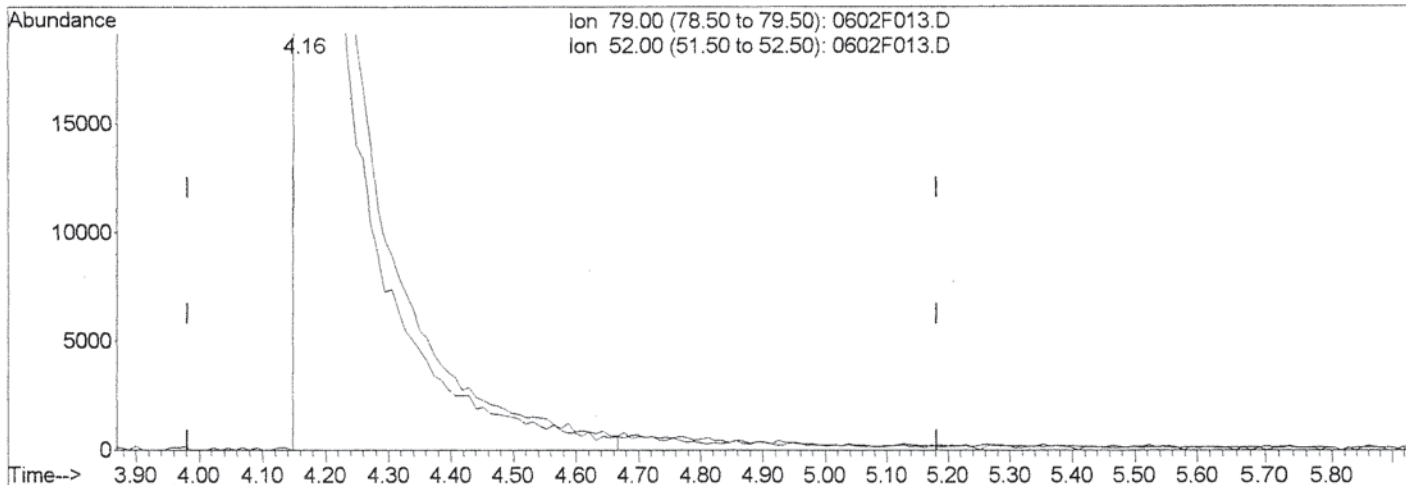
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 11:09 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Multiple Level Calibration



TIC: 0602F013.D

(3) Pyridine (T)

4.16min 85.90ug/ml

response 459485

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 80.29 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

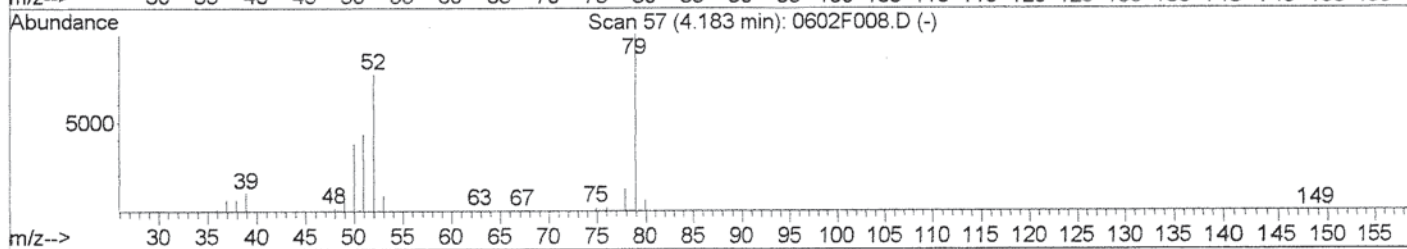
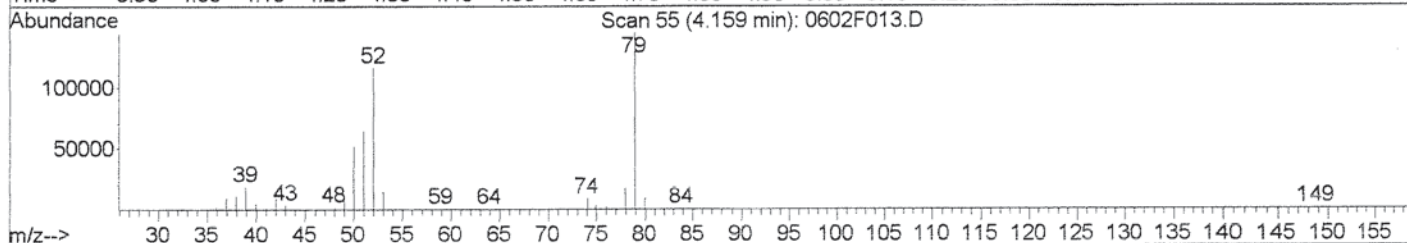
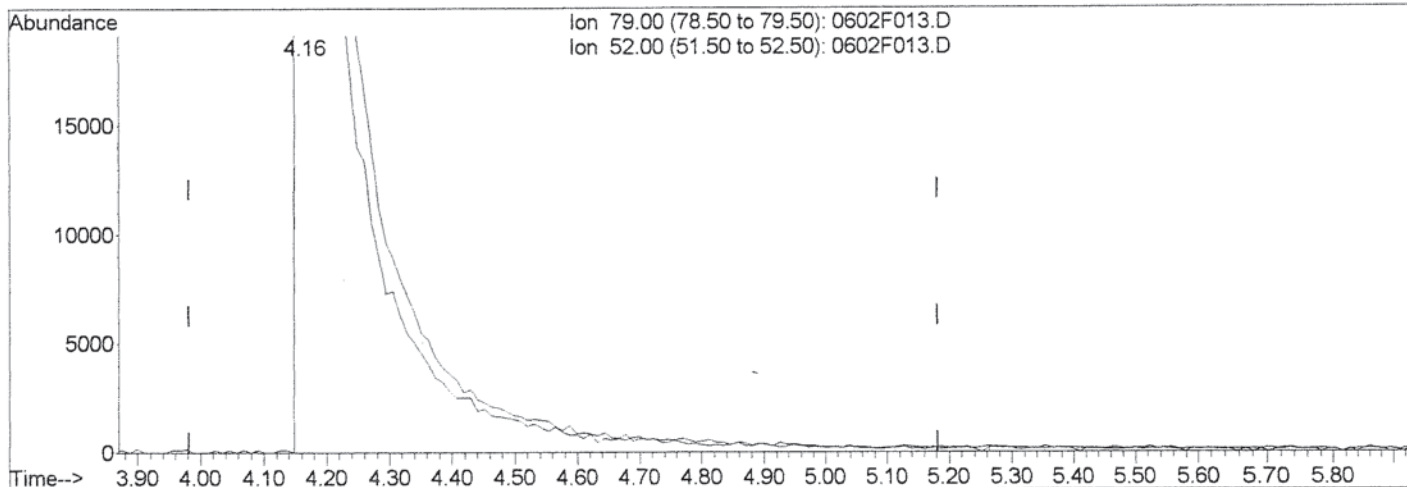
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\060210\0602F013.D  
 Acq On : 2 Jun 2010 11:20 pm  
 Sample : 80PPM 8270 ICV SVM32-21L  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 3 11:09 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Multiple Level Calibration



TIC: 0602F013.D

(3) Pyridine (T)

4.16min 88.22ug/ml m

response 471901

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 80.37 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten notes:* 52, 79, 6-7-10

*Handwritten notes:* LB, 6/14/10



Data File : J:\MS07\DATA\060210\0602F014.D  
 Acq On : 3 Jun 2010 12:01 am  
 Sample : 80PPM ANILINE ICV SVM30-7D  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 11:06:36 2010

Vial: 12  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.34  | 152  | 129491   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 455013   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.30 | 164  | 243230   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 413341   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.12 | 240  | 292354   | 40.00 | ug/ml | -0.02    |
| 77) Perylene-d12          | 24.30 | 264  | 304583   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |                |          |      |        |  |
|--------------------------|---------|----------------|----------|------|--------|--|
| 4) 2-Fluorophenol        | 0.00    | 112            | 0d       | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 21 - 100 | Recovery | =    | 0.00%# |  |
| 7) Phenol-d6             | 0.00    | 99             | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 10 - 94  | Recovery | =    | 0.00%# |  |
| 19) Nitrobenzene-d5      | 0.00    | 82             | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 35 - 114 | Recovery | =    | 0.00%# |  |
| 38) 2-Fluorobiphenyl     | 0.00    | 172            | 0d       | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 43 - 116 | Recovery | =    | 0.00%# |  |
| 59) 2,4,6-Tribromophenol | 0.00    | 330            | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 10 - 123 | Recovery | =    | 0.00%# |  |
| 71) Terphenyl-d14        | 0.00    | 244            | 0d       | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 33 - 141 | Recovery | =    | 0.00%# |  |

Target Compounds

|            | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------|------|------|----------|-------|-------|--------|
| 5) Aniline | 8.81 | 93   | 478547   | 98.61 | ug/ml | 79     |

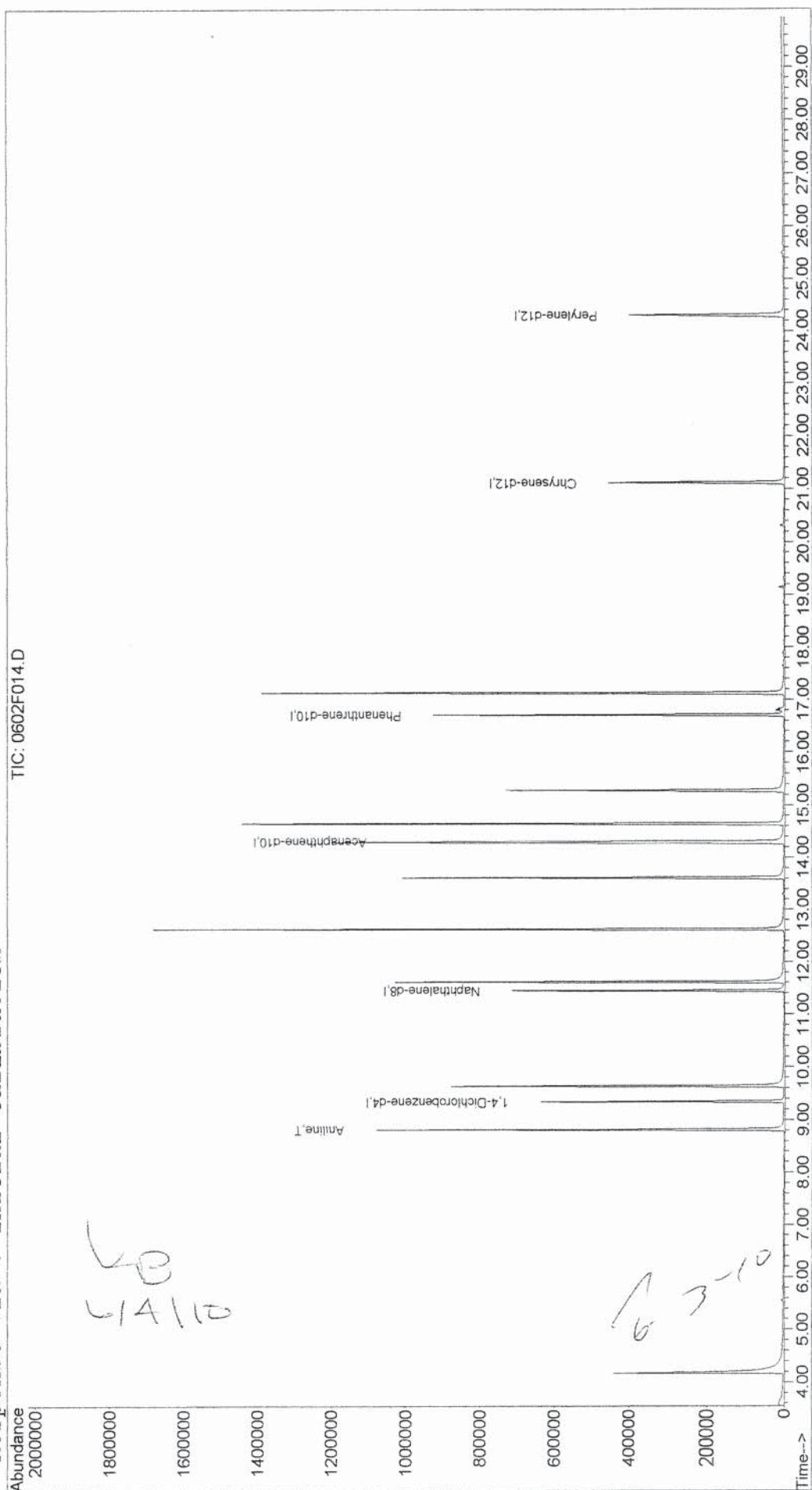
*M*  
*6-3-10*  
*LB*  
*414/10*

Data File : J:\MS07\DATA\060210\0602F014.D  
Acq On : 3 Jun 2010 12:01 am  
Sample : 80PPM ANILINE ICV SVM30-7D  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 11:06 2010

Vial: 12  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



Data File : J:\MS07\DATA\060210\0602F016.D  
 Acq On : 3 Jun 2010 1:21 am  
 Sample : 50PPM BENZ ICV SVM32-25F  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 03 11:08:12 2010

Vial: 14  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 03 11:06:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.34  | 152  | 114003   | 40.00 | ug/ml | 0.00     |
| 21) Naphthalene-d8        | 11.45 | 136  | 399588   | 40.00 | ug/ml | 0.00     |
| 34) Acenaphthene-d10      | 14.30 | 164  | 215228   | 40.00 | ug/ml | 0.00     |
| 58) Phenanthrene-d10      | 16.70 | 188  | 420025   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.11 | 240  | 274219   | 40.00 | ug/ml | -0.02    |
| 77) Perylene-d12          | 24.30 | 264  | 264132   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |                |          |      |        |  |
|--------------------------|---------|----------------|----------|------|--------|--|
| 4) 2-Fluorophenol        | 0.00    | 112            | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 21 - 100 | Recovery | =    | 0.00%# |  |
| 7) Phenol-d6             | 0.00    | 99             | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 10 - 94  | Recovery | =    | 0.00%# |  |
| 19) Nitrobenzene-d5      | 0.00    | 82             | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 35 - 114 | Recovery | =    | 0.00%# |  |
| 38) 2-Fluorobiphenyl     | 0.00    | 172            | 0d       | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 43 - 116 | Recovery | =    | 0.00%# |  |
| 59) 2,4,6-Tribromophenol | 0.00    | 330            | 0        | 0.00 | ug/ml  |  |
| Spiked Amount            | 150.000 | Range 10 - 123 | Recovery | =    | 0.00%# |  |
| 71) Terphenyl-d14        | 0.00    | 244            | 0d       | 0.00 | ug/ml  |  |
| Spiked Amount            | 100.000 | Range 33 - 141 | Recovery | =    | 0.00%# |  |

Target Compounds

|               |       |     |        |        |       |           |
|---------------|-------|-----|--------|--------|-------|-----------|
| 69) Benzidine | 18.92 | 184 | 252849 | 109.81 | ug/ml | Qvalue 97 |
|---------------|-------|-----|--------|--------|-------|-----------|

(#) = qualifier out of range (m) = manual integration  
 0602F016.D 0602BNC7.M Thu Jun 03 11:34:40 2010

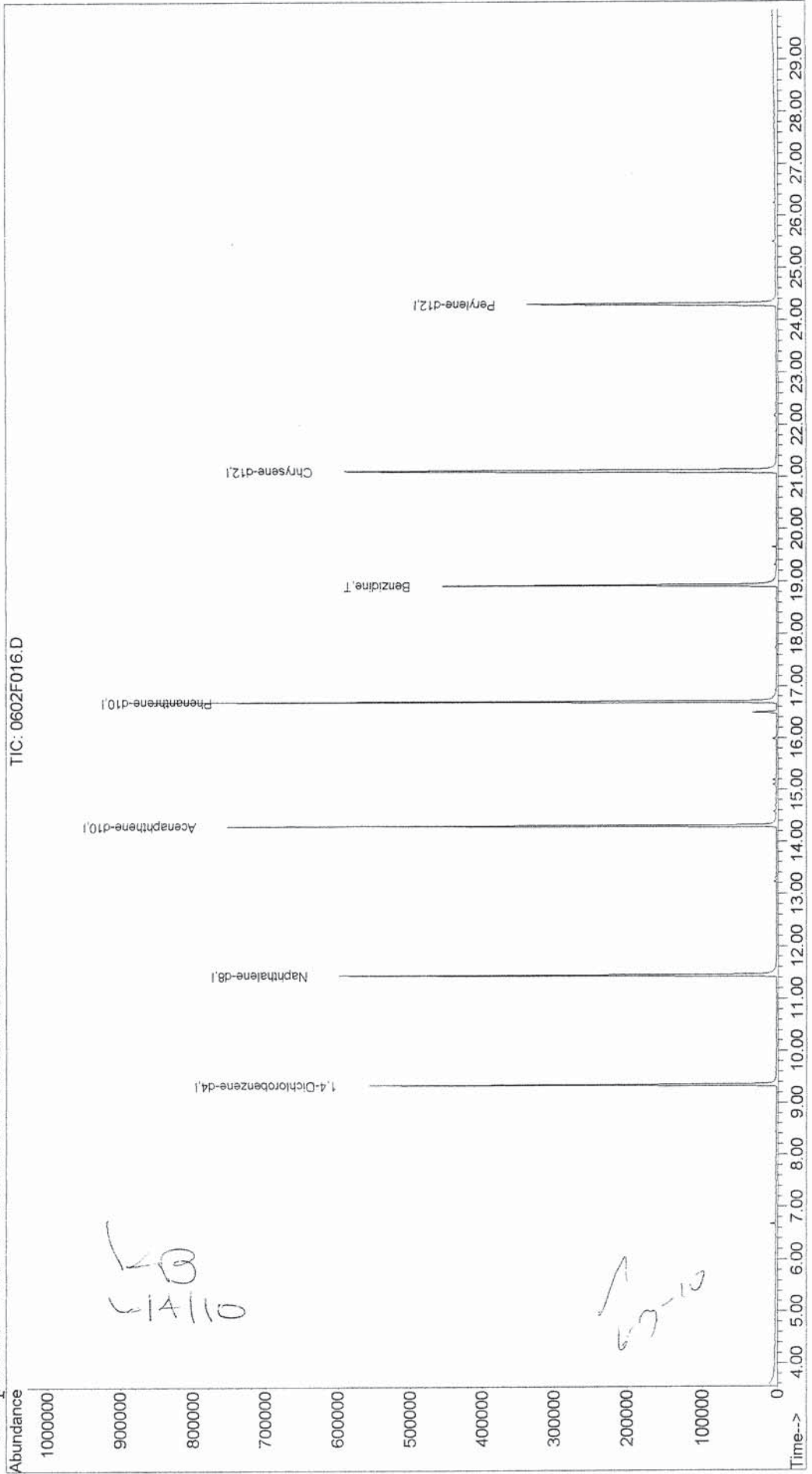
*Handwritten:*  
 6-3-10  
 LB  
 414/10



Data File : J:\MS07\DATA\060210\0602F016.D  
Acq On : 3 Jun 2010 1:21 am  
Sample : 50PPM BENZ ICV SVM32-25F  
Misc :  
MS Integration Params: RTEINT.P  
Quant Time: Jun 3 11:08 2010

Vial: 14  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00  
Quant Results File: 0602BNC7.RES

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 03 11:06:06 2010  
Response via : Initial Calibration



## COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration Date: 06/02/2010  
Calibration ID: CAL9525  
Analysis Lot: KWG1005663  
Units: ug/ml

File ID: J:\MS07\DATA\061010\0610F002.D

| Analyte Name                 | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 86     | 0.01   | 0.956      | 1.03   | 8   | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 73     | 0.01   | 1.50       | 1.38   | -8  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 72     | 0.01   | 1.21       | 1.09   | -10 | NA     | ± 30 %   | AverageRF |
| ‡ Phenol                     | 80       | 77     | 0.01   | 1.52       | 1.45   | -4  | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 86     | 0.01   | 1.39       | 1.50   | 8   | NA     | ± 30 %   | AverageRF |
| ‡ 1,4-Dichlorobenzene        | 80       | 84     | 0.01   | 1.41       | 1.49   | 5   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 85     | 0.01   | 1.34       | 1.42   | 6   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 83     | 0.01   | 0.804      | 0.839  | 4   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 63     | 0.01   | 2.01       | 1.59   | -21 | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 78     | 0.01   | 0.984      | 0.954  | -3  | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 88     | 0.01   | 0.644      | 0.709  | 10  | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 73     | 0.05   | 0.985      | 0.894  | -9  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 82     | 0.01   | 1.49       | 1.53   | 2   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 76     | 0.01   | 1.36       | 1.30   | -4  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 69     | 0.01   | 0.722      | 0.625  | -13 | NA     | ± 30 %   | AverageRF |
| ‡ 2-Nitrophenol              | 80       | 84     | 0.01   | 0.199      | 0.210  | 6   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 80     | 0.01   | 0.266      | 0.266  | 0   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 73     | 0.01   | 0.405      | 0.372  | -8  | NA     | ± 30 %   | AverageRF |
| ‡ 2,4-Dichlorophenol         | 80       | 87     | 0.01   | 0.302      | 0.327  | 8   | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 82     | 0.01   | 0.228      | 0.234  | 3   | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 92     | 0.01   | 0.320      | 0.369  | 15  | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 85     | 0.01   | 0.960      | 1.02   | 6   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 77     | 0.01   | 0.423      | 0.405  | -4  | NA     | ± 30 %   | AverageRF |
| ‡ Hexachlorobutadiene        | 80       | 91     | 0.01   | 0.203      | 0.232  | 14  | NA     | ± 20 %   | AverageRF |
| ‡ 4-Chloro-3-methylphenol    | 80       | 84     | 0.01   | 0.315      | 0.331  | 5   | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 82     | 0.01   | 0.611      | 0.624  | 2   | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 61     | 0.05   | 0.373      | 0.308  | NA  | -23    | ± 30 %   | Quadratic |
| ‡ 2,4,6-Trichlorophenol      | 80       | 92     | 0.01   | 0.413      | 0.473  | 15  | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 88     | 0.01   | 0.460      | 0.508  | 10  | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 80     | 0.01   | 1.16       | 1.15   | -1  | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 78     | 0.01   | 0.372      | 0.363  | -3  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 83     | 0.01   | 1.78       | 1.85   | 4   | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 85     | 0.01   | 1.36       | 1.44   | 6   | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 82     | 0.01   | 0.308      | 0.317  | 3   | NA     | ± 30 %   | AverageRF |
| ‡ Acenaphthene               | 80       | 86     | 0.01   | 1.02       | 1.09   | 8   | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 81     | 0.01   | 0.324      | 0.328  | 1   | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 76     | 0.05   | 0.179      | 0.170  | -5  | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration Date: 06/02/2010  
 Calibration ID: CAL9525  
 Analysis Lot: KWG1005663  
 Units: ug/ml

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 90     | 0.01   | 1.60       | 1.80   | 12  | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 97     | 0.05   | 0.176      | 0.213  | 22  | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 85     | 0.01   | 0.391      | 0.417  | 7   | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 86     | 0.01   | 1.20       | 1.30   | 8   | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 87     | 0.01   | 0.615      | 0.671  | 9   | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 87     | 0.01   | 1.31       | 1.43   | 9   | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 83     | 0.01   | 0.281      | 0.291  | 4   | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 84     | 0.01   | 0.212      | 0.223  | 5   | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 88     | 0.01   | 0.801      | 0.878  | 10  | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 85     | 0.01   | 0.241      | 0.257  | 6   | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 87     | 0.01   | 0.280      | 0.304  | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 82     | 0.01   | 0.157      | 0.162  | 3   | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 83     | 0.01   | 1.06       | 1.10   | 3   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 80     | 0.01   | 1.12       | 1.11   | 0   | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 82     | 0.01   | 1.22       | 1.24   | 2   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 83     | 0.01   | 0.964      | 0.996  | 3   | NA     | ± 20 %   | AverageRF |
| Pyrene                      | 80       | 70     | 0.01   | 1.07       | 0.939  | -12 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 74     | 0.01   | 0.608      | 0.563  | -7  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 82     | 0.01   | 0.418      | 0.429  | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(a)anthracene          | 80       | 82     | 0.01   | 0.940      | 0.964  | 3   | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 80     | 0.01   | 0.910      | 0.905  | -1  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 77     | 0.01   | 0.866      | 0.837  | -3  | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 83     | 0.01   | 1.76       | 1.96   | NA  | 4      | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 90     | 0.01   | 1.03       | 1.16   | 13  | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 85     | 0.01   | 1.07       | 1.14   | 6   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 80     | 0.01   | 0.856      | 0.856  | 0   | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 86     | 0.01   | 0.741      | 0.796  | 7   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 85     | 0.01   | 0.789      | 0.842  | 7   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 82     | 0.01   | 0.800      | 0.825  | 3   | NA     | ± 30 %   | AverageRF |
| 2-Fluorophenol              | 80       | 74     | 0.01   | 1.06       | 0.983  | -8  | NA     | ± 30 %   | AverageRF |
| Phenol-d6                   | 80       | 70     | 0.01   | 1.48       | 1.30   | -12 | NA     | ± 30 %   | AverageRF |
| Nitrobenzene-d5             | 80       | 75     | 0.01   | 1.45       | 1.35   | -7  | NA     | ± 30 %   | AverageRF |
| 2-Fluorobiphenyl            | 80       | 81     | 0.01   | 1.31       | 1.32   | 1   | NA     | ± 30 %   | AverageRF |
| 2,4,6-Tribromophenol        | 80       | 83     | 0.01   | 0.162      | 0.169  | 4   | NA     | ± 30 %   | AverageRF |
| Terphenyl-d14               | 80       | 71     | 0.01   | 0.612      | 0.544  | -11 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## Exception Report

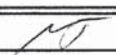
**Data File:** J:\MS07\DATA\061010\0610F002.D  
**Lab ID:** KWG1005663-2  
**Run Type:** CCV  
**Matrix:** WATER

**Date Acquired:** 06/10/2010 15:32  
**Date Quantitated:** 06/11/2010 08:07  
**Batch ID:** KWG1005663  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action   |
|---------------------------------|--------------|--------|-----------|------------|---|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         |  |

Primary Review: M 6/11/10

Secondary Review: LB 6/11/10

# Quantitation Report

|                  |               |               |            |
|------------------|---------------|---------------|------------|
| Bottle ID:       | Tier:         | Matrix:       | WATER      |
| Prod Code: 8270C | Collect Date: | Receive Date: | 06/11/2010 |

|                          |              |               |
|--------------------------|--------------|---------------|
| Analysis Lot: KWG1005663 | Prep Lot:    | Report Group: |
| Analysis Method: 8270C   | Prep Method: |               |
| Prep Ref:                | Prep Date:   |               |

|   |                         |
|---|-------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525 |
| Title:  |                         |
| Tune Ref: J:\MS07\DATA\061010\0610F001.D          | Method ID: MJ250        |
| MB Ref:   | Quant based on Method   |

|   |                              |
|---|------------------------------|
| Data File: J:\MS07\DATA\061010\0610F002.D | Instrument: MS07             |
| Acqu Date: 06/10/2010 15:32               | Quant Date: 06/11/2010 08:07 |
| Run Type: CCV                             | Vial: 2                      |
| Lab ID: KWG1005663-2                      | Dilution: 1.0                |
|   | Soln Conc. Units: ug/ml      |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | -0.01  | 152        | 109990   | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.44 | -0.01  | 136        | 420027   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.29 | -0.01  | 164        | 219736   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.70 | 0.00   | 188        | 325013   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.13 | 0.00   | 240        | 353756   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.31 | 0.00   | 264        | 274061   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  |        |         | 112        | 216302   | 73.97         |      | 20-83       | NA   |
| 1      | Phenol-d6            | 8.86  |        |         | 99         | 286873   | 70.34         |      | 23-90       | NA   |
| 1      | Nitrobenzene-d5      | 10.28 |        |         | 82         | 297975   | 74.79         |      | 29-100      | NA   |
| 3      | 2-Fluorobiphenyl     | 13.23 |        |         | 172        | 580166   | 80.54         |      | 32-104      | NA   |
| 4      | 2,4,6-Tribromophenol | 15.59 |        |         | 330        | 109916   | 83.44         |      | 20-123      | NA   |
| 5      | Terphenyl-d14        | 19.32 |        |         | 244        | 384621   | 71.01         |      | 37-133      | NA   |

## Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.13 |        |         | 42         | 226016m  | 86.00         |            |   |      |
| 1      | Pyridine                 | 4.16 |        |         | 79         | 259518m  | 69.69         |            |   |      |
| 1      | Aniline                  | 8.80 |        |         | 93         | 302691   | 73.43         |            |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.95 |        |         | 93         | 238910   | 71.83         |            |   |      |
| 1      | Phenol                   | 8.88 |        |         | 94         | 319966   | 76.60         |            |   |      |
| 1      | 2-Chlorophenol           | 9.01 |        |         | 128        | 287422   | 79.81         |            |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.23 |        |         | 146        | 329883   | 86.36         |            |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.37 |        |         | 146        | 327211   | 84.11         |            |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.61 |        |         | 146        | 313117   | 85.03         |            |   |      |
| 1      | Benzyl Alcohol           | 9.64 |        |         | 108        | 184543   | 83.43         |            |   |      |

U: Undetected at or above MDL  
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 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
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 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution



|            |                                |                   |                  |
|------------|--------------------------------|-------------------|------------------|
| Data File: | J:\MS07\DATA\061010\0610F002.D | Instrument:       | MS07             |
| Acqu Date: | 06/10/2010 15:32               | Quant Date:       | 06/11/2010 08:07 |
| Run Type:  | CCV                            | Vial:             | 2                |
| Lab ID:    | KWG1005663-2                   | Dilution:         | 1.0              |
|            |                                | Soln Conc. Units: | ug/ml            |

**Target Compounds**

Final Conc. Units:

| IS Ref | Parameter Name               | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|------------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | Bis(2-chloroisopropyl) Ether | 9.85  |        |         | 45         | 349139   | 63.28         |            |   |      |
| 1      | 2-Methylphenol               | 9.86  |        |         | 107        | 209921   | 77.62         |            |   |      |
| 1      | Hexachloroethane             | 10.17 |        |         | 117        | 155984   | 88.12         |            |   |      |
| 1      | N-Nitrosodi-n-propylamine    | 10.09 |        |         | 70         | 196615   | 72.63         |            |   |      |
| 1      | 4-Methylphenol               | 10.13 |        |         | 107        | 336268   | 81.87         |            |   |      |
| 1      | Nitrobenzene                 | 10.31 |        |         | 77         | 286452   | 76.44         |            |   |      |
| 2      | Isophorone                   | 10.73 |        |         | 82         | 525185   | 69.31         |            |   |      |
| 2      | 2-Nitrophenol                | 10.83 |        |         | 139        | 176255   | 84.42         |            |   |      |
| 2      | 2,4-Dimethylphenol           | 10.98 |        |         | 122        | 223696   | 80.13         |            |   |      |
| 2      | Bis(2-chloroethoxy)methane   | 11.11 |        |         | 93         | 312503   | 73.42         |            |   |      |
| 2      | 2,4-Dichlorophenol           | 11.26 |        |         | 162        | 274748   | 86.75         |            |   |      |
| 2      | Benzoic Acid                 | 11.33 |        |         | 122        | 196362   | 82.07         |            |   |      |
| 2      | 1,2,4-Trichlorobenzene       | 11.36 |        |         | 180        | 310058   | 92.21         |            |   |      |
| 2      | Naphthalene                  | 11.47 |        |         | 128        | 857536   | 85.09         |            |   |      |
| 2      | 4-Chloroaniline              | 11.61 |        |         | 127        | 340400   | 76.56         |            |   |      |
| 2      | Hexachlorobutadiene          | 11.70 |        |         | 225        | 194917   | 91.38         |            |   |      |
| 2      | 4-Chloro-3-methylphenol      | 12.45 |        |         | 107        | 278154   | 84.14         |            |   |      |
| 2      | 2-Methylnaphthalene          | 12.61 |        |         | 142        | 524046   | 81.72         |            |   |      |
| 3      | Hexachlorocyclopentadiene    | 12.87 |        |         | 237        | 135426   | 61.44         |            |   |      |
| 3      | 2,4,6-Trichlorophenol        | 13.11 |        |         | 196        | 207799   | 91.67         |            |   |      |
| 3      | 2,4,5-Trichlorophenol        | 13.18 |        |         | 196        | 223222   | 88.37         |            |   |      |
| 3      | 2-Chloronaphthalene          | 13.40 |        |         | 162        | 505419   | 79.53         |            |   |      |
| 3      | 2-Nitroaniline               | 13.60 |        |         | 65         | 159315   | 77.93         |            |   |      |
| 3      | Acenaphthylene               | 14.07 |        |         | 152        | 812961   | 83.04         |            |   |      |
| 3      | Dimethyl Phthalate           | 13.93 |        |         | 163        | 634673   | 84.96         |            |   |      |
| 3      | 2,6-Dinitrotoluene           | 14.02 |        |         | 165        | 139162   | 82.21         |            |   |      |
| 3      | Acenaphthene                 | 14.36 |        |         | 154        | 481100   | 86.10         |            |   |      |
| 3      | 3-Nitroaniline               | 14.29 |        |         | 138        | 144085   | 80.90         |            |   |      |
| 3      | 2,4-Dinitrophenol            | 14.46 |        |         | 184        | 74794    | 76.15         |            |   |      |
| 3      | Dibenzofuran                 | 14.64 |        |         | 168        | 790795   | 89.76         |            |   |      |
| 3      | 4-Nitrophenol                | 14.63 |        |         | 109        | 93791    | 97.25         |            |   |      |
| 3      | 2,4-Dinitrotoluene           | 14.66 |        |         | 165        | 183180   | 85.38         |            |   |      |
| 3      | 2,3,4,6-Tetrachlorophenol    | 14.87 |        |         | 232        | 178809   | 97.09         |            |   |      |
| 3      | Fluorene                     | 15.19 |        |         | 166        | 569134   | 86.21         |            |   |      |
| 3      | 4-Chlorophenyl Phenyl Ether  | 15.22 |        |         | 204        | 294686   | 87.19         |            |   |      |
| 3      | Diethyl Phthalate            | 15.08 |        |         | 149        | 630625   | 87.32         |            |   |      |
| 3      | 4-Nitroaniline               | 15.28 |        |         | 138        | 127947   | 82.99         |            |   |      |
| 3      | 2-Methyl-4,6-dinitrophenol   | 15.33 |        |         | 198        | 97902    | 83.90         |            |   |      |
| 3      | N-Nitrosodiphenylamine       | 15.42 |        |         | 169        | 386072   | 87.71         |            |   |      |
| 3      | 1,2-Diphenylhydrazine        | 15.47 |        |         | 77         | 601340   | 81.02         |            |   |      |
| 4      | 4-Bromophenyl Phenyl Ether   | 16.00 |        |         | 248        | 166745   | 85.10         |            |   |      |
| 4      | Hexachlorobenzene            | 16.08 |        |         | 284        | 197314   | 86.88         |            |   |      |

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Data File: J:\MS07\DATA\061010\0610F002.D  
Acqu Date: 06/10/2010 15:32  
Run Type: CCV  
Lab ID: KWG1005663-2

Quant Date: 06/11/2010 08:07

Instrument: MS07  
Vial: 2  
Dilution: 1.0  
Soln Conc. Units: ug/ml

Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name              | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 4      | Pentachlorophenol           | 16.42 |        |         | 266        | 105145   | 82.38         |            |   |      |
| 4      | Phenanthrene                | 16.74 |        |         | 178        | 713600   | 82.64         |            |   |      |
| 4      | Anthracene                  | 16.83 |        |         | 178        | 724022   | 79.75         |            |   |      |
| 4      | Carbazole                   | 17.11 |        |         | 167        | 589682   | 79.57         |            |   |      |
| 4      | Di-n-butyl Phthalate        | 17.73 |        |         | 149        | 806004   | 81.53         |            |   |      |
| 4      | Fluoranthene                | 18.66 |        |         | 202        | 647583   | 82.71         |            |   |      |
| 5      | Benzidine                   | 18.92 |        |         | 184        | 154419   | 51.99         |            |   |      |
| 5      | Pyrene                      | 19.02 |        |         | 202        | 664162   | 70.34         |            |   |      |
| 5      | Butyl Benzyl Phthalate      | 20.15 |        |         | 149        | 398535   | 74.07         |            |   |      |
| 5      | 3,3'-Dichlorobenzidine      | 21.11 |        |         | 252        | 303503   | 82.10         |            |   |      |
| 5      | Benz(a)anthracene           | 21.11 |        |         | 228        | 682013   | 82.03         |            |   |      |
| 5      | Chrysene                    | 21.19 |        |         | 228        | 640374   | 79.56         |            |   |      |
| 5      | Bis(2-ethylhexyl) Phthalate | 21.30 |        |         | 149        | 592197   | 77.34         |            |   |      |
| 6      | Di-n-octyl Phthalate        | 22.77 |        |         | 149        | 1074545  | 83.01         |            |   |      |
| 6      | Benzo(b)fluoranthene        | 23.45 |        |         | 252        | 635896   | 90.07         |            |   |      |
| 6      | Benzo(k)fluoranthene        | 23.53 |        |         | 252        | 623290   | 85.07         |            |   |      |
| 6      | Benzo(a)pyrene              | 24.19 |        |         | 252        | 469133   | 80.01         |            |   |      |
| 6      | Indeno(1,2,3-cd)pyrene      | 26.78 |        |         | 276        | 436357   | 85.93         |            |   |      |
| 6      | Dibenz(a,h)anthracene       | 26.85 |        |         | 278        | 461461   | 85.31         |            |   |      |
| 6      | Benzo(g,h,i)perylene        | 27.35 |        |         | 276        | 451980   | 82.45         |            |   |      |

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\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
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Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 10 16:02:42 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 109990   | 40.00 | ug/ml | -0.01    |
| 21) Naphthalene-d8        | 11.44 | 136  | 420027   | 40.00 | ug/ml | -0.01    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 219736   | 40.00 | ug/ml | -0.01    |
| 58) Phenanthrene-d10      | 16.70 | 188  | 325013   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 353756   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.31 | 264  | 274061   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 216302   | 73.97    | ug/ml | -0.02  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 49.31% |
| 7) Phenol-d6             | 8.86    | 99    | 286873   | 70.34    | ug/ml | -0.01  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 46.89% |
| 19) Nitrobenzene-d5      | 10.28   | 82    | 297975   | 74.79    | ug/ml | -0.01  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 74.79% |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 580166   | 80.54    | ug/ml | -0.01  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 80.54% |
| 59) 2,4,6-Tribromophenol | 15.59   | 330   | 109916   | 83.44    | ug/ml | -0.01  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 55.63% |
| 71) Terphenyl-d14        | 19.32   | 244   | 384621   | 71.01    | ug/ml | -0.01  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 71.01% |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.13  | 42   | 226016m  | 86.00 | ug/ml |        |
| 3) Pyridine                    | 4.16  | 79   | 259518m  | 69.69 | ug/ml |        |
| 5) Aniline                     | 8.80  | 93   | 302691   | 73.43 | ug/ml | 74     |
| 6) Bis(2-chloroethyl) Ether    | 8.95  | 93   | 238910   | 71.83 | ug/ml | 98     |
| 8) Phenol                      | 8.88  | 94   | 319966   | 76.60 | ug/ml | 96     |
| 9) 2-Chlorophenol              | 9.01  | 128  | 287422   | 79.81 | ug/ml | 93     |
| 10) 1,3-Dichlorobenzene        | 9.23  | 146  | 329883   | 86.36 | ug/ml | 99     |
| 11) 1,4-Dichlorobenzene        | 9.37  | 146  | 327211   | 84.11 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.61  | 146  | 313117   | 85.03 | ug/ml | 100    |
| 13) Benzyl Alcohol             | 9.64  | 108  | 184543   | 83.43 | ug/ml | 89     |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45   | 349139   | 63.28 | ug/ml | 72     |
| 15) 2-Methylphenol             | 9.86  | 107  | 209921   | 77.62 | ug/ml | 99     |
| 16) Hexachloroethane           | 10.17 | 117  | 155984   | 88.12 | ug/ml | 86     |
| 17) N-Nitrosodi-n-propylamine  | 10.09 | 70   | 196615   | 72.63 | ug/ml | 89     |
| 18) 4-Methylphenol             | 10.13 | 107  | 336268   | 81.87 | ug/ml | 98     |
| 20) Nitrobenzene               | 10.31 | 77   | 286452   | 76.44 | ug/ml | 97     |
| 22) Isophorone                 | 10.73 | 82   | 525185   | 69.31 | ug/ml | 98     |
| 23) 2-Nitrophenol              | 10.83 | 139  | 176255   | 84.42 | ug/ml | 94     |
| 24) 2,4-Dimethylphenol         | 10.98 | 122  | 223696   | 80.13 | ug/ml | 96     |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93   | 312503   | 73.42 | ug/ml | 99     |

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



Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 10 16:02:42 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.26 | 162  | 274748   | 86.75 | ug/ml  | 98     |
| 27) Benzoic Acid               | 11.33 | 122  | 196362   | 82.07 | ug/ml  | 98     |
| 28) 1,2,4-Trichlorobenzene     | 11.36 | 180  | 310058   | 92.21 | ug/ml  | 98     |
| 29) Naphthalene                | 11.47 | 128  | 857536   | 85.09 | ug/ml  | 99     |
| 30) 4-Chloroaniline            | 11.61 | 127  | 340400   | 76.56 | ug/ml  | 97     |
| 31) Hexachlorobutadiene        | 11.70 | 225  | 194917   | 91.38 | ug/ml  | 100    |
| 32) 4-Chloro-3-methylphenol    | 12.45 | 107  | 278154   | 84.14 | ug/ml  | 97     |
| 33) 2-Methylnaphthalene        | 12.61 | 142  | 524046   | 81.72 | ug/ml  | 100    |
| 35) Hexachlorocyclopentadiene  | 12.87 | 237  | 135426   | 61.44 | ug/ml  | 96     |
| 36) 2,4,6-Trichlorophenol      | 13.11 | 196  | 207799   | 91.67 | ug/ml  | 99     |
| 37) 2,4,5-Trichlorophenol      | 13.18 | 196  | 223222   | 88.37 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.40 | 162  | 505419   | 79.53 | ug/ml  | 99     |
| 40) 2-Nitroaniline             | 13.60 | 65   | 159315   | 77.93 | ug/ml  | 97     |
| 41) Acenaphthylene             | 14.07 | 152  | 812961   | 83.04 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.93 | 163  | 634673   | 84.96 | ug/ml  | 100    |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 139162   | 82.21 | ug/ml  | 88     |
| 44) Acenaphthene               | 14.36 | 154  | 481100   | 86.10 | ug/ml  | 98     |
| 45) 3-Nitroaniline             | 14.29 | 138  | 144085   | 80.90 | ug/ml  | 92     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 74794    | 76.15 | ug/ml  | 91     |
| 47) Dibenzofuran               | 14.64 | 168  | 790795   | 89.76 | ug/ml  | 99     |
| 48) 4-Nitrophenol              | 14.63 | 109  | 93791    | 97.25 | ug/ml# | 87     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 183180   | 85.38 | ug/ml  | 73     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 178809   | 97.09 | ug/ml  | 97     |
| 51) Fluorene                   | 15.19 | 166  | 569134   | 86.21 | ug/ml  | 97     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.22 | 204  | 294686   | 87.19 | ug/ml  | 95     |
| 53) Diethyl Phthalate          | 15.08 | 149  | 630625   | 87.32 | ug/ml  | 98     |
| 54) 4-Nitroaniline             | 15.28 | 138  | 127947   | 82.99 | ug/ml  | 83     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.33 | 198  | 97902    | 83.90 | ug/ml# | 35     |
| 56) N-Nitrosodiphenylamine     | 15.42 | 169  | 386072   | 87.71 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 601340   | 81.02 | ug/ml  | 93     |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 166745   | 85.10 | ug/ml  | 91     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 197314   | 86.88 | ug/ml  | 91     |
| 62) Pentachlorophenol          | 16.42 | 266  | 105145   | 82.38 | ug/ml  | 99     |
| 63) Phenanthrene               | 16.74 | 178  | 713600   | 82.64 | ug/ml  | 98     |
| 64) Anthracene                 | 16.83 | 178  | 724022   | 79.75 | ug/ml  | 99     |
| 65) Carbazole                  | 17.11 | 167  | 589682   | 79.57 | ug/ml  | 100    |
| 66) Di-n-butyl Phthalate       | 17.73 | 149  | 806004   | 81.53 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 647583   | 82.71 | ug/ml  | 92     |
| 69) Benzidine                  | 18.92 | 184  | 154419   | 51.99 | ug/ml  | 95     |
| 70) Pyrene                     | 19.02 | 202  | 664162   | 70.34 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.15 | 149  | 398535   | 74.07 | ug/ml  | 94     |

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



Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 10 16:02:42 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.11 | 252  | 303503   | 82.10 | ug/ml | 98     |
| 74) Benz(a)anthracene          | 21.11 | 228  | 682013   | 82.03 | ug/ml | 100    |
| 75) Chrysene                   | 21.19 | 228  | 640374   | 79.56 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.30 | 149  | 592197   | 77.34 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.77 | 149  | 1074545  | 83.01 | ug/ml | 99     |
| 79) Benzo(b)fluoranthene       | 23.45 | 252  | 635896   | 90.07 | ug/ml | 95     |
| 80) Benzo(k)fluoranthene       | 23.53 | 252  | 623290   | 85.07 | ug/ml | 95     |
| 81) Benzo(a)pyrene             | 24.19 | 252  | 469133   | 80.01 | ug/ml | 96     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.78 | 276  | 436357   | 85.93 | ug/ml | 95     |
| 83) Dibenz(a,h)anthracene      | 26.85 | 278  | 461461   | 85.31 | ug/ml | 98     |
| 84) Benzo(g,h,i)perylene       | 27.35 | 276  | 451980   | 82.45 | ug/ml | 94     |





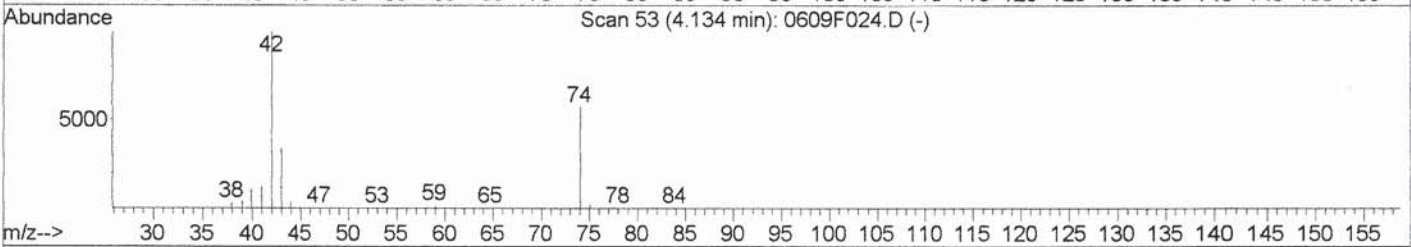
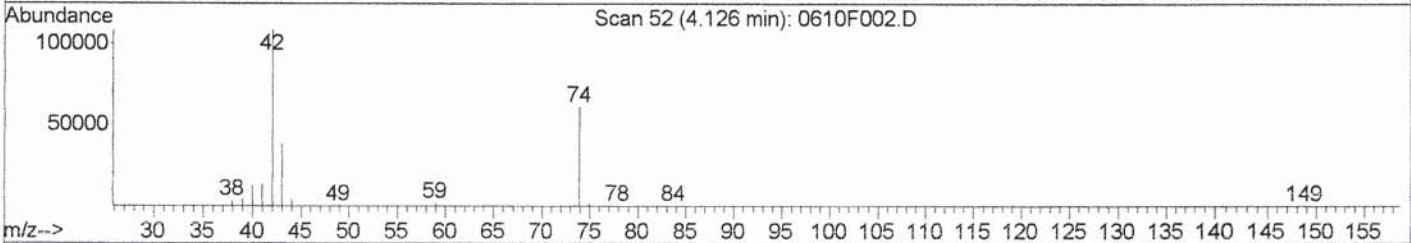
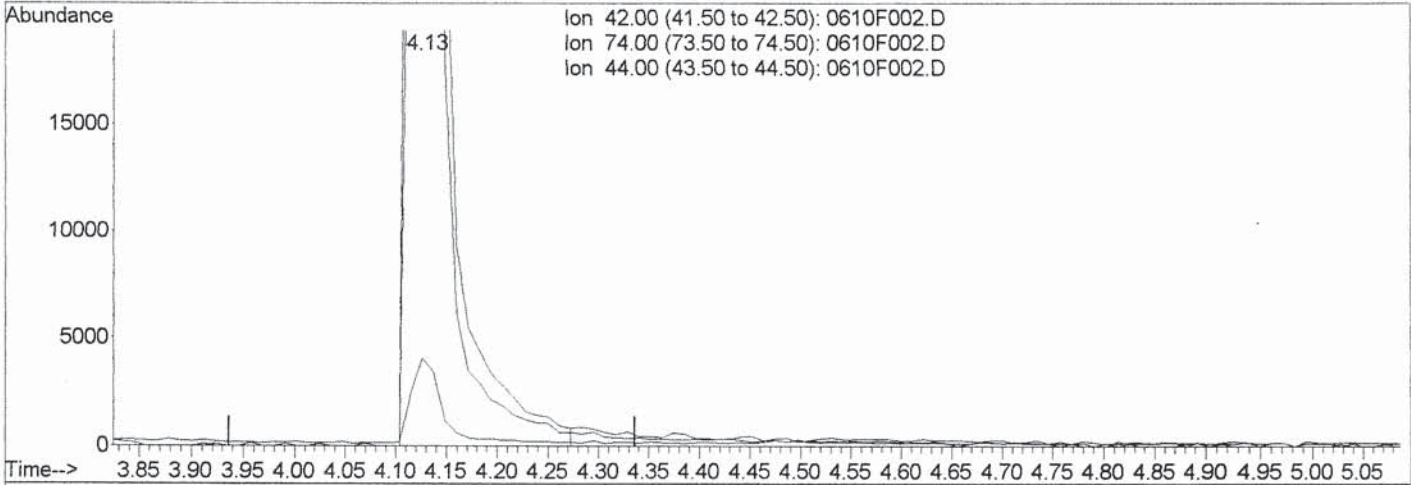
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P.  
 Quant Time: Jun 10 16:02 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Multiple Level Calibration



TIC: 0610F002.D

(2) N-Nitrosodimethylamine (T)

4.13min 83.43ug/ml

response 219253

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 56.29 |
| 44.00 | 4.40  | 3.60  |
| 0.00  | 0.00  | 0.00  |

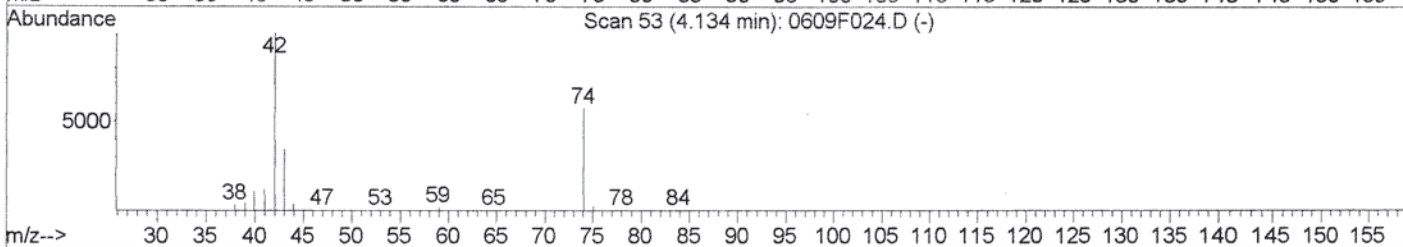
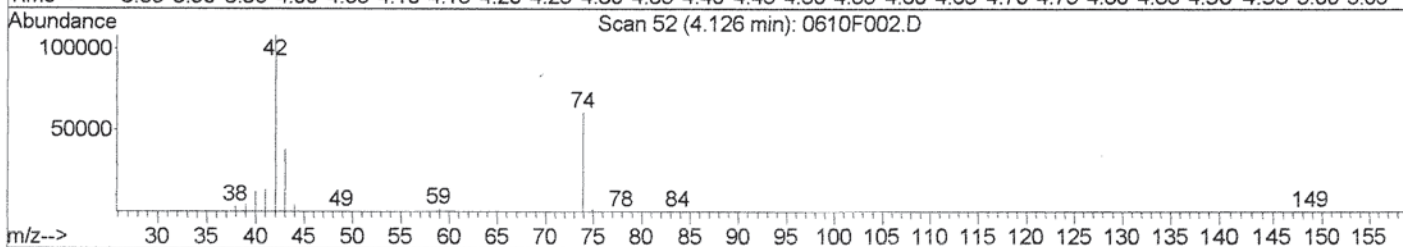
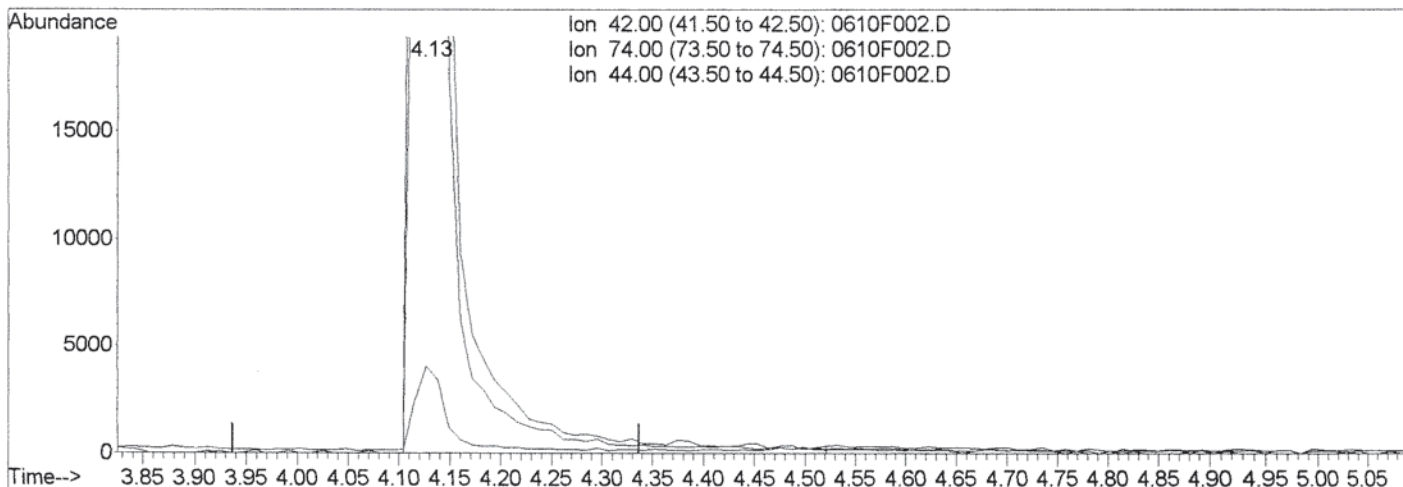


Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:07 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Multiple Level Calibration



TIC: 0610F002.D

(2) N-Nitrosodimethylamine (T)

4.13min 86.00ug/ml m

response 226016

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 56.37 |
| 44.00 | 4.40  | 3.75  |
| 0.00  | 0.00  | 0.00  |

*JL MB 11/10*

*LB  
6/11/10*

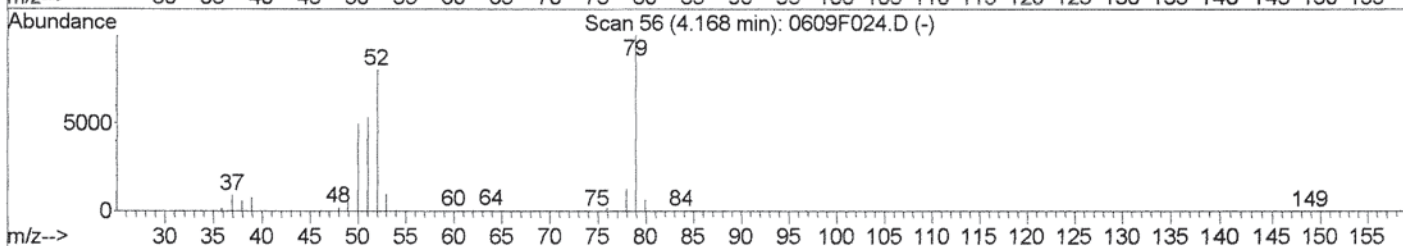
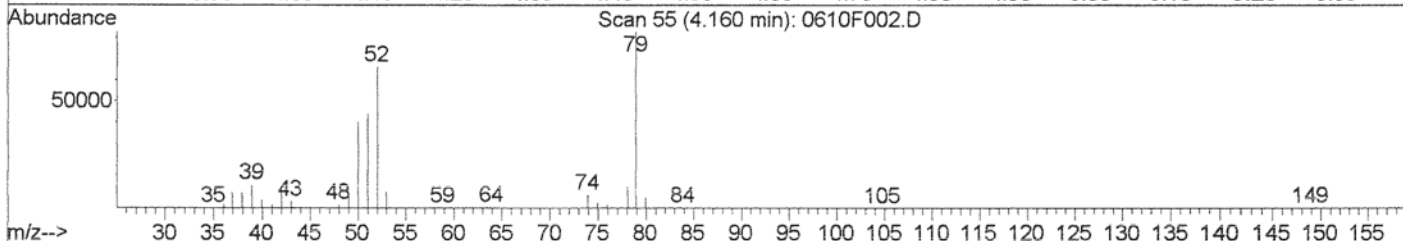
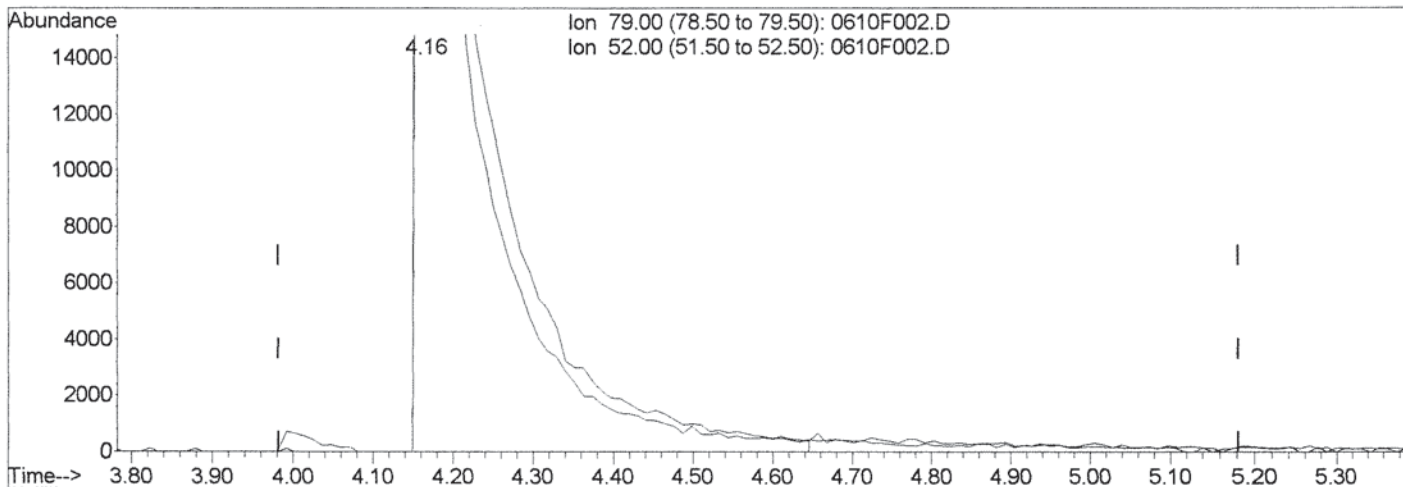
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F002.D  
 Acq On : 10 Jun 2010 3:32 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 8:07 2010

Vial: 2  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Multiple Level Calibration



TIC: 0610F002.D

(3) Pyridine (T)

4.16min 67.94ug/ml

response 252993

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 79.68 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

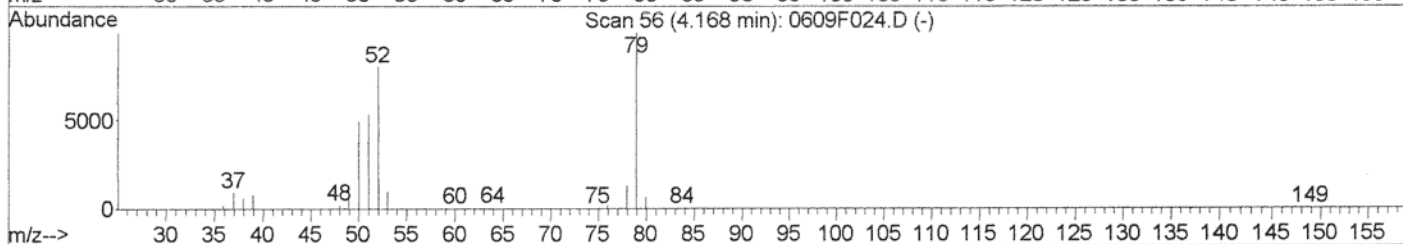
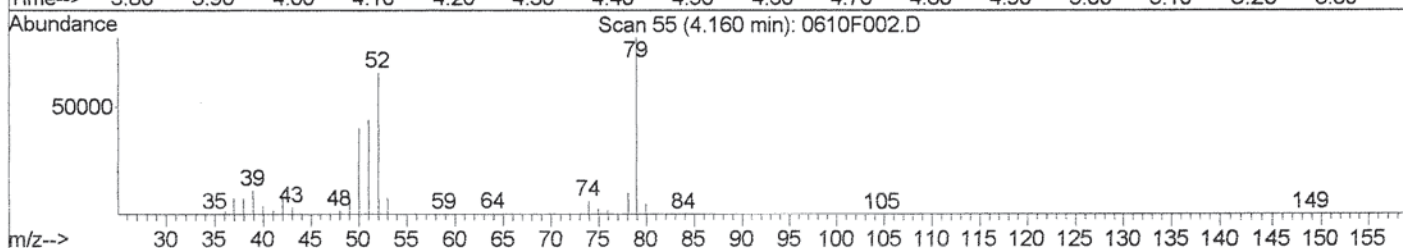
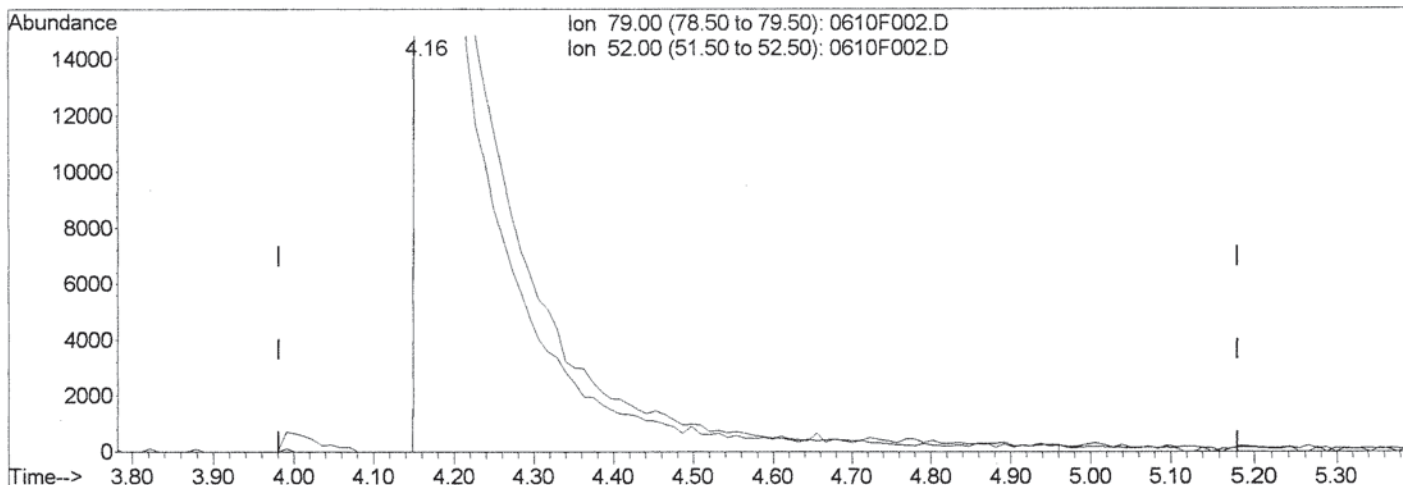
Data File : J:\MS07\DATA\061010\0610F002.D  
Acq On : 10 Jun 2010 3:32 pm  
Sample : 80PPM 8270 CCV SVM32-40T  
Misc :

Vial: 2  
Operator: M.BUTCHER  
Inst : MS07  
Multiplr: 1.00

MS Integration Params: RTEINT.P  
Quant Time: Jun 11 8:07 2010

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
Last Update : Thu Jun 10 12:07:36 2010  
Response via : Multiple Level Calibration



TIC: 0610F002.D

(3) Pyridine (T)

4.16min 69.69ug/ml m

response 259518

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 79.76 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*Handwritten:* 5C  
M6-11-10

*Handwritten:* LB  
4/14/10



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
Analysis Method: 8270C

Calibration Date: 06/02/2010  
Calibration ID: CAL9525  
Analysis Lot: KWG1005687  
Units: ug/ml

File ID: J:\MS07\DATA\061010\0610F013.D

| Analyte Name                 | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| N-Nitrosodimethylamine       | 80       | 81     | 0.01   | 0.956      | 0.963  | 1   | NA     | ± 30 %   | AverageRF |
| Aniline                      | 80       | 83     | 0.01   | 1.50       | 1.55   | 3   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethyl) Ether     | 80       | 76     | 0.01   | 1.21       | 1.15   | -5  | NA     | ± 30 %   | AverageRF |
| † Phenol                     | 80       | 84     | 0.01   | 1.52       | 1.60   | 5   | NA     | ± 20 %   | AverageRF |
| 2-Chlorophenol               | 80       | 84     | 0.01   | 1.31       | 1.38   | 5   | NA     | ± 30 %   | AverageRF |
| 1,3-Dichlorobenzene          | 80       | 83     | 0.01   | 1.39       | 1.45   | 4   | NA     | ± 30 %   | AverageRF |
| ‡ 1,4-Dichlorobenzene        | 80       | 82     | 0.01   | 1.41       | 1.46   | 3   | NA     | ± 20 %   | AverageRF |
| 1,2-Dichlorobenzene          | 80       | 83     | 0.01   | 1.34       | 1.38   | 3   | NA     | ± 30 %   | AverageRF |
| Benzyl Alcohol               | 80       | 93     | 0.01   | 0.804      | 0.938  | 17  | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroisopropyl) Ether | 80       | 76     | 0.01   | 2.01       | 1.91   | -5  | NA     | ± 30 %   | AverageRF |
| 2-Methylphenol               | 80       | 83     | 0.01   | 0.984      | 1.02   | 4   | NA     | ± 30 %   | AverageRF |
| Hexachloroethane             | 80       | 83     | 0.01   | 0.644      | 0.665  | 3   | NA     | ± 30 %   | AverageRF |
| † N-Nitrosodi-n-propylamine  | 80       | 77     | 0.05   | 0.985      | 0.951  | -3  | NA     | ± 30 %   | AverageRF |
| 4-Methylphenol               | 80       | 85     | 0.01   | 1.49       | 1.58   | 6   | NA     | ± 30 %   | AverageRF |
| Nitrobenzene                 | 80       | 78     | 0.01   | 1.36       | 1.32   | -3  | NA     | ± 30 %   | AverageRF |
| Isophorone                   | 80       | 79     | 0.01   | 0.722      | 0.713  | -1  | NA     | ± 30 %   | AverageRF |
| ‡ 2-Nitrophenol              | 80       | 87     | 0.01   | 0.199      | 0.217  | 9   | NA     | ± 20 %   | AverageRF |
| 2,4-Dimethylphenol           | 80       | 87     | 0.01   | 0.266      | 0.289  | 9   | NA     | ± 30 %   | AverageRF |
| Bis(2-chloroethoxy)methane   | 80       | 79     | 0.01   | 0.405      | 0.398  | -2  | NA     | ± 30 %   | AverageRF |
| ‡ 2,4-Dichlorophenol         | 80       | 88     | 0.01   | 0.302      | 0.332  | 10  | NA     | ± 20 %   | AverageRF |
| Benzoic Acid                 | 80       | 87     | 0.01   | 0.228      | 0.249  | 9   | NA     | ± 30 %   | AverageRF |
| 1,2,4-Trichlorobenzene       | 80       | 85     | 0.01   | 0.320      | 0.340  | 6   | NA     | ± 30 %   | AverageRF |
| Naphthalene                  | 80       | 81     | 0.01   | 0.960      | 0.967  | 1   | NA     | ± 30 %   | AverageRF |
| 4-Chloroaniline              | 80       | 82     | 0.01   | 0.423      | 0.433  | 2   | NA     | ± 30 %   | AverageRF |
| ‡ Hexachlorobutadiene        | 80       | 85     | 0.01   | 0.203      | 0.215  | 6   | NA     | ± 20 %   | AverageRF |
| ‡ 4-Chloro-3-methylphenol    | 80       | 84     | 0.01   | 0.315      | 0.331  | 5   | NA     | ± 20 %   | AverageRF |
| 2-Methylnaphthalene          | 80       | 82     | 0.01   | 0.611      | 0.625  | 2   | NA     | ± 30 %   | AverageRF |
| † Hexachlorocyclopentadiene  | 80       | 64     | 0.05   | 0.373      | 0.322  | NA  | -20    | ± 30 %   | Quadratic |
| ‡ 2,4,6-Trichlorophenol      | 80       | 87     | 0.01   | 0.413      | 0.450  | 9   | NA     | ± 20 %   | AverageRF |
| 2,4,5-Trichlorophenol        | 80       | 84     | 0.01   | 0.460      | 0.485  | 5   | NA     | ± 30 %   | AverageRF |
| 2-Chloronaphthalene          | 80       | 83     | 0.01   | 1.16       | 1.20   | 4   | NA     | ± 30 %   | AverageRF |
| 2-Nitroaniline               | 80       | 76     | 0.01   | 0.372      | 0.352  | -5  | NA     | ± 30 %   | AverageRF |
| Acenaphthylene               | 80       | 83     | 0.01   | 1.78       | 1.85   | 4   | NA     | ± 30 %   | AverageRF |
| Dimethyl Phthalate           | 80       | 78     | 0.01   | 1.36       | 1.33   | -2  | NA     | ± 30 %   | AverageRF |
| 2,6-Dinitrotoluene           | 80       | 80     | 0.01   | 0.308      | 0.308  | 0   | NA     | ± 30 %   | AverageRF |
| ‡ Acenaphthene               | 80       | 83     | 0.01   | 1.02       | 1.06   | 4   | NA     | ± 20 %   | AverageRF |
| 3-Nitroaniline               | 80       | 77     | 0.01   | 0.324      | 0.312  | -4  | NA     | ± 30 %   | AverageRF |
| † 2,4-Dinitrophenol          | 80       | 72     | 0.05   | 0.179      | 0.161  | -10 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent  
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244  
 Date Analyzed: 06/10/2010

Continuing Calibration Verification Summary  
 Semi-Volatile Organic Compounds by GC/MS

Calibration Type: Internal Standard  
 Analysis Method: 8270C

Calibration Date: 06/02/2010  
 Calibration ID: CAL9525  
 Analysis Lot: KWG1005687  
 Units: ug/ml

| Analyte Name                | Expected | Result | Min RF | Average RF | CCV RF | %D  | %Drift | Criteria | Curve Fit |
|-----------------------------|----------|--------|--------|------------|--------|-----|--------|----------|-----------|
| Dibenzofuran                | 80       | 81     | 0.01   | 1.60       | 1.63   | 1   | NA     | ± 30 %   | AverageRF |
| † 4-Nitrophenol             | 80       | 84     | 0.05   | 0.176      | 0.184  | 5   | NA     | ± 30 %   | AverageRF |
| 2,4-Dinitrotoluene          | 80       | 73     | 0.01   | 0.391      | 0.358  | -8  | NA     | ± 30 %   | AverageRF |
| Fluorene                    | 80       | 80     | 0.01   | 1.20       | 1.21   | 0   | NA     | ± 30 %   | AverageRF |
| 4-Chlorophenyl Phenyl Ether | 80       | 78     | 0.01   | 0.615      | 0.596  | -3  | NA     | ± 30 %   | AverageRF |
| Diethyl Phthalate           | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 4-Nitroaniline              | 80       | 78     | 0.01   | 0.281      | 0.273  | -3  | NA     | ± 30 %   | AverageRF |
| 2-Methyl-4,6-dinitrophenol  | 80       | 73     | 0.01   | 0.212      | 0.193  | -9  | NA     | ± 30 %   | AverageRF |
| ‡ N-Nitrosodiphenylamine    | 80       | 75     | 0.01   | 0.801      | 0.747  | -7  | NA     | ± 20 %   | AverageRF |
| 4-Bromophenyl Phenyl Ether  | 80       | 88     | 0.01   | 0.241      | 0.265  | 10  | NA     | ± 30 %   | AverageRF |
| Hexachlorobenzene           | 80       | 89     | 0.01   | 0.280      | 0.312  | 12  | NA     | ± 30 %   | AverageRF |
| ‡ Pentachlorophenol         | 80       | 82     | 0.01   | 0.157      | 0.161  | 3   | NA     | ± 20 %   | AverageRF |
| Phenanthrene                | 80       | 81     | 0.01   | 1.06       | 1.08   | 1   | NA     | ± 30 %   | AverageRF |
| Anthracene                  | 80       | 80     | 0.01   | 1.12       | 1.12   | 0   | NA     | ± 30 %   | AverageRF |
| Di-n-butyl Phthalate        | 80       | 87     | 0.01   | 1.22       | 1.32   | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Fluoranthene              | 80       | 82     | 0.01   | 0.964      | 0.992  | 3   | NA     | ± 20 %   | AverageRF |
| Pyrene                      | 80       | 70     | 0.01   | 1.07       | 0.940  | -12 | NA     | ± 30 %   | AverageRF |
| Butyl Benzyl Phthalate      | 80       | 79     | 0.01   | 0.608      | 0.598  | -2  | NA     | ± 30 %   | AverageRF |
| 3,3'-Dichlorobenzidine      | 80       | 80     | 0.01   | 0.418      | 0.420  | 1   | NA     | ± 30 %   | AverageRF |
| Benz(a)anthracene           | 80       | 80     | 0.01   | 0.940      | 0.944  | 0   | NA     | ± 30 %   | AverageRF |
| Chrysene                    | 80       | 79     | 0.01   | 0.910      | 0.902  | -1  | NA     | ± 30 %   | AverageRF |
| Bis(2-ethylhexyl) Phthalate | 80       | 83     | 0.01   | 0.866      | 0.901  | 4   | NA     | ± 30 %   | AverageRF |
| ‡ Di-n-octyl Phthalate      | 80       | 90     | 0.01   | 1.76       | 2.14   | NA  | 12     | ± 20 %   | Quadratic |
| Benzo(b)fluoranthene        | 80       | 87     | 0.01   | 1.03       | 1.12   | 9   | NA     | ± 30 %   | AverageRF |
| Benzo(k)fluoranthene        | 80       | 87     | 0.01   | 1.07       | 1.17   | 9   | NA     | ± 30 %   | AverageRF |
| ‡ Benzo(a)pyrene            | 80       | 84     | 0.01   | 0.856      | 0.894  | 5   | NA     | ± 20 %   | AverageRF |
| Indeno(1,2,3-cd)pyrene      | 80       | 87     | 0.01   | 0.741      | 0.802  | 8   | NA     | ± 30 %   | AverageRF |
| Dibenz(a,h)anthracene       | 80       | 83     | 0.01   | 0.789      | 0.815  | 3   | NA     | ± 30 %   | AverageRF |
| Benzo(g,h,i)perylene        | 80       | 84     | 0.01   | 0.800      | 0.843  | 5   | NA     | ± 30 %   | AverageRF |
| 2-Fluorophenol              | 80       | 79     | 0.01   | 1.06       | 1.05   | -1  | NA     | ± 30 %   | AverageRF |
| Phenol-d6                   | 80       | 78     | 0.01   | 1.48       | 1.45   | -2  | NA     | ± 30 %   | AverageRF |
| Nitrobenzene-d5             | 80       | 76     | 0.01   | 1.45       | 1.38   | -5  | NA     | ± 30 %   | AverageRF |
| 2-Fluorobiphenyl            | 80       | 80     | 0.01   | 1.31       | 1.31   | 0   | NA     | ± 30 %   | AverageRF |
| 2,4,6-Tribromophenol        | 80       | 84     | 0.01   | 0.162      | 0.169  | 4   | NA     | ± 30 %   | AverageRF |
| Terphenyl-d14               | 80       | 70     | 0.01   | 0.612      | 0.538  | -12 | NA     | ± 30 %   | AverageRF |

Results flagged with an asterisk (\*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound



## Exception Report

**Data File:** J:\MS07\DATA\061010\0610F013.D  
**Lab ID:** KWG1005687-2  
**Run Type:** CCV  
**Matrix:** WATER

**Date Acquired:** 06/10/2010 22:59  
**Date Quantitated:** 06/11/2010 11:41  
**Batch ID:** KWG1005687  
**Analysis Method:** 8270C  
**MethodJoinID:** MJ250

### Sample Exceptions

| Exception Categories                  | Result | Low Limit | High Limit | Pass | Fail |
|---------------------------------------|--------|-----------|------------|------|------|
| Tune Window                           | NA     | NA        | NA         | x    |      |
| ICAL Pass/Fail                        | NA     | NA        | NA         | x    |      |
| ICAL Average RSD                      | NA     | NA        | NA         | x    |      |
| ICAL Analyte Recovery                 | NA     | NA        | NA         | x    |      |
| Initial Calibration Minimum RF        | NA     | NA        | NA         | x    |      |
| Initial Calibration SPCC/CCC          | NA     | NA        | NA         | x    |      |
| Second Source ICAL Verification       | NA     | NA        | NA         |      | x    |
| Internal Standards                    | NA     | NA        | NA         | x    |      |
| Analyte Co-elution                    | NA     | NA        | NA         | x    |      |
| Retention Time                        | NA     | NA        | NA         | x    |      |
| Below Lowest ICAL Level               | NA     | NA        | NA         | x    |      |
| Above Highest ICAL Level              | NA     | NA        | NA         | x    |      |
| Enviroquant/Stealth Calibration Check | NA     | NA        | NA         | x    |      |

### Analyte Exceptions

| Exception Categories            | Analyte Name | Result | Low Limit | High Limit | Corrective Action |
|---------------------------------|--------------|--------|-----------|------------|-------------------|
| Second Source ICAL Verification | Benzidine    | 119.6  | NA        | 30         | <i>nt</i>         |

Primary Review: *M 6-11-10*

Secondary Review: *LB 6-11-10*



# Quantitation Report

|                  |               |               |            |
|------------------|---------------|---------------|------------|
| Bottle ID:       | Tier:         | Matrix:       | WATER      |
| Prod Code: 8270C | Collect Date: | Receive Date: | 06/11/2010 |

|                          |              |               |
|--------------------------|--------------|---------------|
| Analysis Lot: KWG1005687 | Prep Lot:    | Report Group: |
| Analysis Method: 8270C   | Prep Method: |               |
| Prep Ref:                | Prep Date:   |               |

|   |                         |
|---|-------------------------|
| Quant Method: J:\MS07\METHODS\8270_625\0602BNC7.M | Calibration ID: CAL9525 |
| Title:  |                         |
| Tune Ref: J:\MS07\DATA\061010\0610F012.D          | Method ID: MJ250        |
| MB Ref:   | Quant based on Method   |

|   |                              |                         |
|---|------------------------------|-------------------------|
| Data File: J:\MS07\DATA\061010\0610F013.D | Instrument: MS07             | Vial: 11                |
| Acqu Date: 06/10/2010 22:59               | Quant Date: 06/11/2010 11:41 | Dilution: 1.0           |
| Run Type: CCV                             |                              | Soln Conc. Units: ug/ml |
| Lab ID: KWG1005687-2                      |                              |                         |

## Internal Standard Compounds

| IS Ref | Parameter Name         | RT    | RT Dev | Quant Mass | Response | Solution Conc | Area Criteria |
|--------|------------------------|-------|--------|------------|----------|---------------|---------------|
| 1      | 1,4-Dichlorobenzene-d4 | 9.33  | -0.01  | 152        | 142104   | 40.00         | OK            |
| 2      | Naphthalene-d8         | 11.44 | -0.01  | 136        | 539393   | 40.00         | OK            |
| 3      | Acenaphthene-d10       | 14.29 | -0.01  | 164        | 286996   | 40.00         | OK            |
| 4      | Phenanthrene-d10       | 16.70 | 0.00   | 188        | 353872   | 40.00         | OK            |
| 5      | Chrysene-d12           | 21.13 | 0.00   | 240        | 408000   | 40.00         | OK            |
| 6      | Perylene-d12           | 24.31 | 0.00   | 264        | 306648   | 40.00         | OK            |

## Surrogate Compounds

| IS Ref | Parameter Name       | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | %Rec | %Rec Limits | Rpt? |
|--------|----------------------|-------|--------|---------|------------|----------|---------------|------|-------------|------|
| 1      | 2-Fluorophenol       | 7.11  |        |         | 112        | 298545   | 79.02         |      | 20-83       | NA   |
| 1      | Phenol-d6            | 8.84  |        |         | 99         | 413286   | 78.43         |      | 23-90       | NA   |
| 1      | Nitrobenzene-d5      | 10.28 |        |         | 82         | 391071   | 75.98         |      | 29-100      | NA   |
| 3      | 2-Fluorobiphenyl     | 13.23 |        |         | 172        | 754157   | 80.16         |      | 32-104      | NA   |
| 4      | 2,4,6-Tribromophenol | 15.58 |        |         | 330        | 119877   | 83.58         |      | 20-123      | NA   |
| 5      | Terphenyl-d14        | 19.31 |        |         | 244        | 438850   | 70.25         |      | 37-133      | NA   |

## Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name           | RT   | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|--------------------------|------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | N-Nitrosodimethylamine   | 4.12 |        |         | 42         | 273733m  | 80.62         |            |   |      |
| 1      | Pyridine                 | 4.15 |        |         | 79         | 404287m  | 84.03         |            |   |      |
| 1      | Aniline                  | 8.80 |        |         | 93         | 439422   | 82.51         |            |   |      |
| 1      | Bis(2-chloroethyl) Ether | 8.95 |        |         | 93         | 328020   | 76.34         |            |   |      |
| 1      | Phenol                   | 8.88 |        |         | 94         | 454902   | 84.29         |            |   |      |
| 1      | 2-Chlorophenol           | 9.00 |        |         | 128        | 391119   | 84.06         |            |   |      |
| 1      | 1,3-Dichlorobenzene      | 9.23 |        |         | 146        | 410899   | 83.26         |            |   |      |
| 1      | 1,4-Dichlorobenzene      | 9.36 |        |         | 146        | 414147   | 82.40         |            |   |      |
| 1      | 1,2-Dichlorobenzene      | 9.60 |        |         | 146        | 393432   | 82.69         |            |   |      |
| 1      | Benzyl Alcohol           | 9.63 |        |         | 108        | 266678   | 93.32         |            |   |      |

U: Undetected at or above MDL  
 J: Analyte detected above MDL, but below MRL  
 B: Hit above MRL also found in Method Blank  
 E: Analyte concentration above high point of ICAL  
 N: Presumptive evidence of compound

D: Result from dilution  
 m: Manual integration performed  
 d: Compound manually deleted  
 NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
 #: Acceptance criteria not applicable  
 ?: Insufficient information to determine acceptance  
 e: Result >= MRL, but MRL less than low point of ICAL  
 c: check for co-elution

Data File: J:\MS07\DATA\061010\0610F013.D  
Acqu Date: 06/10/2010 22:59  
Run Type: CCV  
Lab ID: KWG1005687-2

Quant Date: 06/11/2010 11:41

Instrument: MS07  
Vial: 11  
Dilution: 1.0  
Soln Conc. Units: ug/ml

Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name               | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|------------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 1      | Bis(2-chloroisopropyl) Ether | 9.85  |        |         | 45         | 542886   | 76.15         |            |   |      |
| 1      | 2-Methylphenol               | 9.86  |        |         | 107        | 289641   | 82.89         |            |   |      |
| 1      | Hexachloroethane             | 10.16 |        |         | 117        | 189065   | 82.68         |            |   |      |
| 1      | N-Nitrosodi-n-propylamine    | 10.08 |        |         | 70         | 270319   | 77.29         |            |   |      |
| 1      | 4-Methylphenol               | 10.13 |        |         | 107        | 450023   | 84.81         |            |   |      |
| 1      | Nitrobenzene                 | 10.31 |        |         | 77         | 376213   | 77.70         |            |   |      |
| 2      | Isophorone                   | 10.73 |        |         | 82         | 769026   | 79.03         |            |   |      |
| 2      | 2-Nitrophenol                | 10.83 |        |         | 139        | 233565   | 87.11         |            |   |      |
| 2      | 2,4-Dimethylphenol           | 10.97 |        |         | 122        | 311249   | 86.82         |            |   |      |
| 2      | Bis(2-chloroethoxy)methane   | 11.11 |        |         | 93         | 429455   | 78.57         |            |   |      |
| 2      | 2,4-Dichlorophenol           | 11.26 |        |         | 162        | 357860   | 87.99         |            |   |      |
| 2      | Benzoic Acid                 | 11.34 |        |         | 122        | 268395   | 87.36         |            |   |      |
| 2      | 1,2,4-Trichlorobenzene       | 11.36 |        |         | 180        | 366994   | 84.99         |            |   |      |
| 2      | Naphthalene                  | 11.47 |        |         | 128        | 1042668  | 80.57         |            |   |      |
| 2      | 4-Chloroaniline              | 11.61 |        |         | 127        | 466954   | 81.79         |            |   |      |
| 2      | Hexachlorobutadiene          | 11.70 |        |         | 225        | 232418   | 84.84         |            |   |      |
| 2      | 4-Chloro-3-methylphenol      | 12.45 |        |         | 107        | 356723   | 84.02         |            |   |      |
| 2      | 2-Methylnaphthalene          | 12.61 |        |         | 142        | 674575   | 81.92         |            |   |      |
| 3      | Hexachlorocyclopentadiene    | 12.87 |        |         | 237        | 184583   | 63.78         |            |   |      |
| 3      | 2,4,6-Trichlorophenol        | 13.10 |        |         | 196        | 258227   | 87.22         |            |   |      |
| 3      | 2,4,5-Trichlorophenol        | 13.17 |        |         | 196        | 278447   | 84.40         |            |   |      |
| 3      | 2-Chloronaphthalene          | 13.40 |        |         | 162        | 687781   | 82.86         |            |   |      |
| 3      | 2-Nitroaniline               | 13.60 |        |         | 65         | 202134   | 75.70         |            |   |      |
| 3      | Acenaphthylene               | 14.06 |        |         | 152        | 1061267  | 83.00         |            |   |      |
| 3      | Dimethyl Phthalate           | 13.93 |        |         | 163        | 763436   | 78.25         |            |   |      |
| 3      | 2,6-Dinitrotoluene           | 14.02 |        |         | 165        | 176733   | 79.93         |            |   |      |
| 3      | Acenaphthene                 | 14.36 |        |         | 154        | 606201   | 83.07         |            |   |      |
| 3      | 3-Nitroaniline               | 14.29 |        |         | 138        | 179272   | 77.06         |            |   |      |
| 3      | 2,4-Dinitrophenol            | 14.46 |        |         | 184        | 92333    | 71.97         |            |   |      |
| 3      | Dibenzofuran                 | 14.64 |        |         | 168        | 933333   | 81.11         |            |   |      |
| 3      | 4-Nitrophenol                | 14.63 |        |         | 109        | 105863   | 84.04         |            |   |      |
| 3      | 2,4-Dinitrotoluene           | 14.66 |        |         | 165        | 205374   | 73.29         |            |   |      |
| 3      | 2,3,4,6-Tetrachlorophenol    | 14.86 |        |         | 232        | 204335   | 84.94         |            |   |      |
| 3      | Fluorene                     | 15.19 |        |         | 166        | 691904   | 80.24         |            |   |      |
| 3      | 4-Chlorophenyl Phenyl Ether  | 15.21 |        |         | 204        | 342162   | 77.51         |            |   |      |
| 3      | Diethyl Phthalate            | 15.08 |        |         | 149        | 753027   | 79.84         |            |   |      |
| 3      | 4-Nitroaniline               | 15.28 |        |         | 138        | 156559   | 77.75         |            |   |      |
| 3      | 2-Methyl-4,6-dinitrophenol   | 15.32 |        |         | 198        | 111013   | 72.84         |            |   |      |
| 3      | N-Nitrosodiphenylamine       | 15.41 |        |         | 169        | 428858   | 74.60         |            |   |      |
| 3      | 1,2-Diphenylhydrazine        | 15.47 |        |         | 77         | 737754   | 76.10         |            |   |      |
| 4      | 4-Bromophenyl Phenyl Ether   | 16.00 |        |         | 248        | 187349   | 87.81         |            |   |      |
| 4      | Hexachlorobenzene            | 16.08 |        |         | 284        | 220922   | 89.34         |            |   |      |

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d: Compound manually deleted  
NR: Analyte not reported from this analysis

\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



Data File: J:\MS07\DATA\061010\0610F013.D  
Acqu Date: 06/10/2010 22:59  
Run Type: CCV  
Lab ID: KWG1005687-2

Quant Date: 06/11/2010 11:41

Instrument: MS07  
Vial: 11  
Dilution: 1.0  
Soln Conc. Units: ug/ml

Target Compounds

Final Conc. Units:

| IS Ref | Parameter Name              | RT    | RT Dev | RRT Dev | Quant Mass | Response | Solution Conc | Final Conc | Q | Rpt? |
|--------|-----------------------------|-------|--------|---------|------------|----------|---------------|------------|---|------|
| 4      | Pentachlorophenol           | 16.42 |        |         | 266        | 114252   | 82.22         |            |   |      |
| 4      | Phenanthrene                | 16.73 |        |         | 178        | 761829   | 81.03         |            |   |      |
| 4      | Anthracene                  | 16.82 |        |         | 178        | 789961   | 79.92         |            |   |      |
| 4      | Carbazole                   | 17.11 |        |         | 167        | 691672   | 85.72         |            |   |      |
| 4      | Di-n-butyl Phthalate        | 17.72 |        |         | 149        | 934447   | 86.81         |            |   |      |
| 4      | Fluoranthene                | 18.66 |        |         | 202        | 702275   | 82.39         |            |   |      |
| 5      | Benzidine                   | 18.92 |        |         | 184        | 200045   | 58.39         |            |   |      |
| 5      | Pyrene                      | 19.01 |        |         | 202        | 766674   | 70.40         |            |   |      |
| 5      | Butyl Benzyl Phthalate      | 20.15 |        |         | 149        | 487675   | 78.58         |            |   |      |
| 5      | 3,3'-Dichlorobenzidine      | 21.11 |        |         | 252        | 342867   | 80.42         |            |   |      |
| 5      | Benz(a)anthracene           | 21.11 |        |         | 228        | 770217   | 80.32         |            |   |      |
| 5      | Chrysene                    | 21.18 |        |         | 228        | 736216   | 79.31         |            |   |      |
| 5      | Bis(2-ethylhexyl) Phthalate | 21.30 |        |         | 149        | 735519   | 83.28         |            |   |      |
| 6      | Di-n-octyl Phthalate        | 22.76 |        |         | 149        | 1311285  | 89.92         |            |   |      |
| 6      | Benzo(b)fluoranthene        | 23.45 |        |         | 252        | 689760   | 87.32         |            |   |      |
| 6      | Benzo(k)fluoranthene        | 23.52 |        |         | 252        | 714807   | 87.19         |            |   |      |
| 6      | Benzo(a)pyrene              | 24.18 |        |         | 252        | 548575   | 83.61         |            |   |      |
| 6      | Indeno(1,2,3-cd)pyrene      | 26.77 |        |         | 276        | 492122   | 86.61         |            |   |      |
| 6      | Dibenz(a,h)anthracene       | 26.84 |        |         | 278        | 499648   | 82.55         |            |   |      |
| 6      | Benzo(g,h,i)perylene        | 27.35 |        |         | 276        | 517172   | 84.32         |            |   |      |

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\*: Result fails acceptance criteria  
#: Acceptance criteria not applicable  
?: Insufficient information to determine acceptance  
e: Result >= MRL, but MRL less than low point of ICAL  
c: check for co-elution



Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 07:09:31 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 142104   | 40.00 | ug/ml | -0.02    |
| 21) Naphthalene-d8        | 11.44 | 136  | 539393   | 40.00 | ug/ml | -0.02    |
| 34) Acenaphthene-d10      | 14.29 | 164  | 286996   | 40.00 | ug/ml | -0.02    |
| 58) Phenanthrene-d10      | 16.70 | 188  | 353872   | 40.00 | ug/ml | 0.00     |
| 68) Chrysene-d12          | 21.13 | 240  | 408000   | 40.00 | ug/ml | 0.00     |
| 77) Perylene-d12          | 24.31 | 264  | 306648   | 40.00 | ug/ml | 0.00     |

System Monitoring Compounds

|                          |         |       |          |          |       |        |
|--------------------------|---------|-------|----------|----------|-------|--------|
| 4) 2-Fluorophenol        | 7.11    | 112   | 298545   | 79.02    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 21 - 100 | Recovery | =     | 52.68% |
| 7) Phenol-d6             | 8.84    | 99    | 413286   | 78.43    | ug/ml | -0.03  |
| Spiked Amount            | 150.000 | Range | 10 - 94  | Recovery | =     | 52.29% |
| 19) Nitrobenzene-d5      | 10.28   | 82    | 391071   | 75.98    | ug/ml | -0.01  |
| Spiked Amount            | 100.000 | Range | 35 - 114 | Recovery | =     | 75.98% |
| 38) 2-Fluorobiphenyl     | 13.23   | 172   | 754157   | 80.16    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 43 - 116 | Recovery | =     | 80.16% |
| 59) 2,4,6-Tribromophenol | 15.58   | 330   | 119877   | 83.58    | ug/ml | -0.01  |
| Spiked Amount            | 150.000 | Range | 10 - 123 | Recovery | =     | 55.72% |
| 71) Terphenyl-d14        | 19.31   | 244   | 438850   | 70.25    | ug/ml | -0.02  |
| Spiked Amount            | 100.000 | Range | 33 - 141 | Recovery | =     | 70.25% |

Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) N-Nitrosodimethylamine      | 4.12  | 42   | 273733m  | 80.62 | ug/ml |        |
| 3) Pyridine                    | 4.15  | 79   | 404287m  | 84.03 | ug/ml |        |
| 5) Aniline                     | 8.80  | 93   | 439422   | 82.51 | ug/ml | 87     |
| 6) Bis(2-chloroethyl) Ether    | 8.95  | 93   | 328020   | 76.34 | ug/ml | 99     |
| 8) Phenol                      | 8.88  | 94   | 454902   | 84.29 | ug/ml | 95     |
| 9) 2-Chlorophenol              | 9.00  | 128  | 391119   | 84.06 | ug/ml | 92     |
| 10) 1,3-Dichlorobenzene        | 9.23  | 146  | 410899   | 83.26 | ug/ml | 99     |
| 11) 1,4-Dichlorobenzene        | 9.36  | 146  | 414147   | 82.40 | ug/ml | 98     |
| 12) 1,2-Dichlorobenzene        | 9.60  | 146  | 393432   | 82.69 | ug/ml | 95     |
| 13) Benzyl Alcohol             | 9.63  | 108  | 266678   | 93.32 | ug/ml | 95     |
| 14) Bis(2-chloroisopropyl) Eth | 9.85  | 45   | 542886   | 76.15 | ug/ml | 77     |
| 15) 2-Methylphenol             | 9.86  | 107  | 289641   | 82.89 | ug/ml | 96     |
| 16) Hexachloroethane           | 10.16 | 117  | 189065   | 82.68 | ug/ml | 85     |
| 17) N-Nitrosodi-n-propylamine  | 10.08 | 70   | 270319   | 77.29 | ug/ml | 90     |
| 18) 4-Methylphenol             | 10.13 | 107  | 450023   | 84.81 | ug/ml | 99     |
| 20) Nitrobenzene               | 10.31 | 77   | 376213   | 77.70 | ug/ml | 97     |
| 22) Isophorone                 | 10.73 | 82   | 769026   | 79.03 | ug/ml | 99     |
| 23) 2-Nitrophenol              | 10.83 | 139  | 233565   | 87.11 | ug/ml | 95     |
| 24) 2,4-Dimethylphenol         | 10.97 | 122  | 311249   | 86.82 | ug/ml | 100    |
| 25) Bis(2-chloroethoxy)methane | 11.11 | 93   | 429455   | 78.57 | ug/ml | 100    |

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



Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 07:09:31 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit   | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 26) 2,4-Dichlorophenol         | 11.26 | 162  | 357860   | 87.99 | ug/ml  | 98     |
| 27) Benzoic Acid               | 11.34 | 122  | 268395   | 87.36 | ug/ml  | 97     |
| 28) 1,2,4-Trichlorobenzene     | 11.36 | 180  | 366994   | 84.99 | ug/ml  | 99     |
| 29) Naphthalene                | 11.47 | 128  | 1042668  | 80.57 | ug/ml  | 98     |
| 30) 4-Chloroaniline            | 11.61 | 127  | 466954   | 81.79 | ug/ml  | 98     |
| 31) Hexachlorobutadiene        | 11.70 | 225  | 232418   | 84.84 | ug/ml  | 100    |
| 32) 4-Chloro-3-methylphenol    | 12.45 | 107  | 356723   | 84.02 | ug/ml# | 53     |
| 33) 2-Methylnaphthalene        | 12.61 | 142  | 674575   | 81.92 | ug/ml  | 97     |
| 35) Hexachlorocyclopentadiene  | 12.87 | 237  | 184583   | 63.78 | ug/ml  | 97     |
| 36) 2,4,6-Trichlorophenol      | 13.10 | 196  | 258227   | 87.22 | ug/ml  | 99     |
| 37) 2,4,5-Trichlorophenol      | 13.17 | 196  | 278447   | 84.40 | ug/ml  | 99     |
| 39) 2-Chloronaphthalene        | 13.40 | 162  | 687781   | 82.86 | ug/ml  | 100    |
| 40) 2-Nitroaniline             | 13.60 | 65   | 202134   | 75.70 | ug/ml  | 98     |
| 41) Acenaphthylene             | 14.06 | 152  | 1061267  | 83.00 | ug/ml  | 99     |
| 42) Dimethyl Phthalate         | 13.93 | 163  | 763436   | 78.25 | ug/ml  | 99     |
| 43) 2,6-Dinitrotoluene         | 14.02 | 165  | 176733   | 79.93 | ug/ml  | 88     |
| 44) Acenaphthene               | 14.36 | 154  | 606201   | 83.07 | ug/ml  | 97     |
| 45) 3-Nitroaniline             | 14.29 | 138  | 179272   | 77.06 | ug/ml  | 94     |
| 46) 2,4-Dinitrophenol          | 14.46 | 184  | 92333    | 71.97 | ug/ml  | 93     |
| 47) Dibenzofuran               | 14.64 | 168  | 933333   | 81.11 | ug/ml  | 99     |
| 48) 4-Nitrophenol              | 14.63 | 109  | 105863   | 84.04 | ug/ml# | 85     |
| 49) 2,4-Dinitrotoluene         | 14.66 | 165  | 205374   | 73.29 | ug/ml  | 77     |
| 50) 2,3,4,6-Tetrachlorophenol  | 14.86 | 232  | 204335   | 84.94 | ug/ml  | 97     |
| 51) Fluorene                   | 15.19 | 166  | 691904   | 80.24 | ug/ml  | 97     |
| 52) 4-Chlorophenyl Phenyl Ethe | 15.21 | 204  | 342162   | 77.51 | ug/ml  | 95     |
| 53) Diethyl Phthalate          | 15.08 | 149  | 753027   | 79.84 | ug/ml  | 99     |
| 54) 4-Nitroaniline             | 15.28 | 138  | 156559   | 77.75 | ug/ml  | 90     |
| 55) 2-Methyl-4,6-dinitrophenol | 15.32 | 198  | 111013   | 72.84 | ug/ml# | 36     |
| 56) N-Nitrosodiphenylamine     | 15.41 | 169  | 428858   | 74.60 | ug/ml  | 99     |
| 57) 1,2-Diphenylhydrazine      | 15.47 | 77   | 737754   | 76.10 | ug/ml  | 96     |
| 60) 4-Bromophenyl Phenyl Ether | 16.00 | 248  | 187349   | 87.81 | ug/ml  | 96     |
| 61) Hexachlorobenzene          | 16.08 | 284  | 220922   | 89.34 | ug/ml  | 87     |
| 62) Pentachlorophenol          | 16.42 | 266  | 114252   | 82.22 | ug/ml  | 98     |
| 63) Phenanthrene               | 16.73 | 178  | 761829   | 81.03 | ug/ml  | 99     |
| 64) Anthracene                 | 16.82 | 178  | 789961   | 79.92 | ug/ml  | 100    |
| 65) Carbazole                  | 17.11 | 167  | 691672   | 85.72 | ug/ml  | 99     |
| 66) Di-n-butyl Phthalate       | 17.72 | 149  | 934447   | 86.81 | ug/ml  | 99     |
| 67) Fluoranthene               | 18.66 | 202  | 702275   | 82.39 | ug/ml  | 95     |
| 69) Benzidine                  | 18.92 | 184  | 200045   | 58.39 | ug/ml  | 95     |
| 70) Pyrene                     | 19.01 | 202  | 766674   | 70.40 | ug/ml  | 99     |
| 72) Butyl Benzyl Phthalate     | 20.15 | 149  | 487675   | 78.58 | ug/ml  | 95     |

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

Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 07:09:31 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: 0602BNC7.RES

Quant Method : J:\MS07\M...\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Thu Jun 10 12:07:36 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 8270\_1

| Compound                       | R.T.  | QIon | Response | Conc  | Unit  | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 73) 3,3'-Dichlorobenzidine     | 21.11 | 252  | 342867   | 80.42 | ug/ml | 99     |
| 74) Benz(a)anthracene          | 21.11 | 228  | 770217   | 80.32 | ug/ml | 100    |
| 75) Chrysene                   | 21.18 | 228  | 736216   | 79.31 | ug/ml | 99     |
| 76) Bis(2-ethylhexyl) Phthalat | 21.30 | 149  | 735519   | 83.28 | ug/ml | 99     |
| 78) Di-n-octyl Phthalate       | 22.76 | 149  | 1311285  | 89.92 | ug/ml | 100    |
| 79) Benzo(b)fluoranthene       | 23.45 | 252  | 689760   | 87.32 | ug/ml | 97     |
| 80) Benzo(k)fluoranthene       | 23.52 | 252  | 714807   | 87.19 | ug/ml | 99     |
| 81) Benzo(a)pyrene             | 24.18 | 252  | 548575   | 83.61 | ug/ml | 97     |
| 82) Indeno(1,2,3-cd)pyrene     | 26.77 | 276  | 492122   | 86.61 | ug/ml | 96     |
| 83) Dibenz(a,h)anthracene      | 26.84 | 278  | 499648   | 82.55 | ug/ml | 99     |
| 84) Benzo(g,h,i)perylene       | 27.35 | 276  | 517172   | 84.32 | ug/ml | 95     |





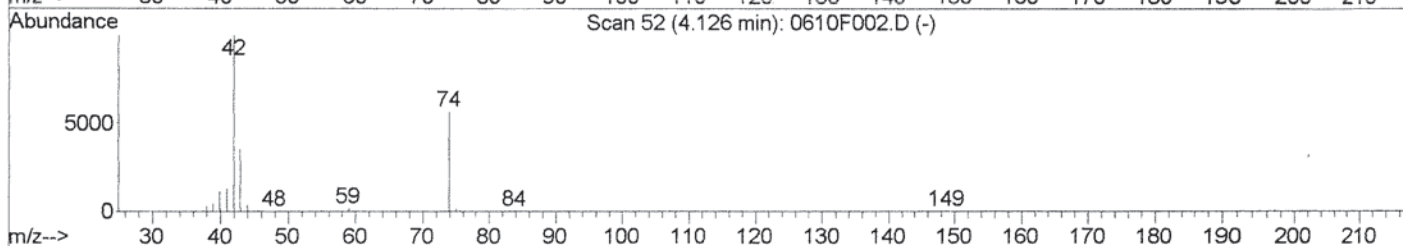
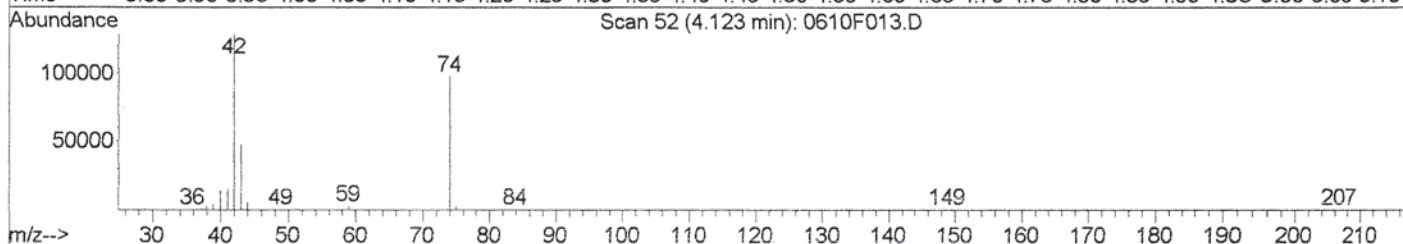
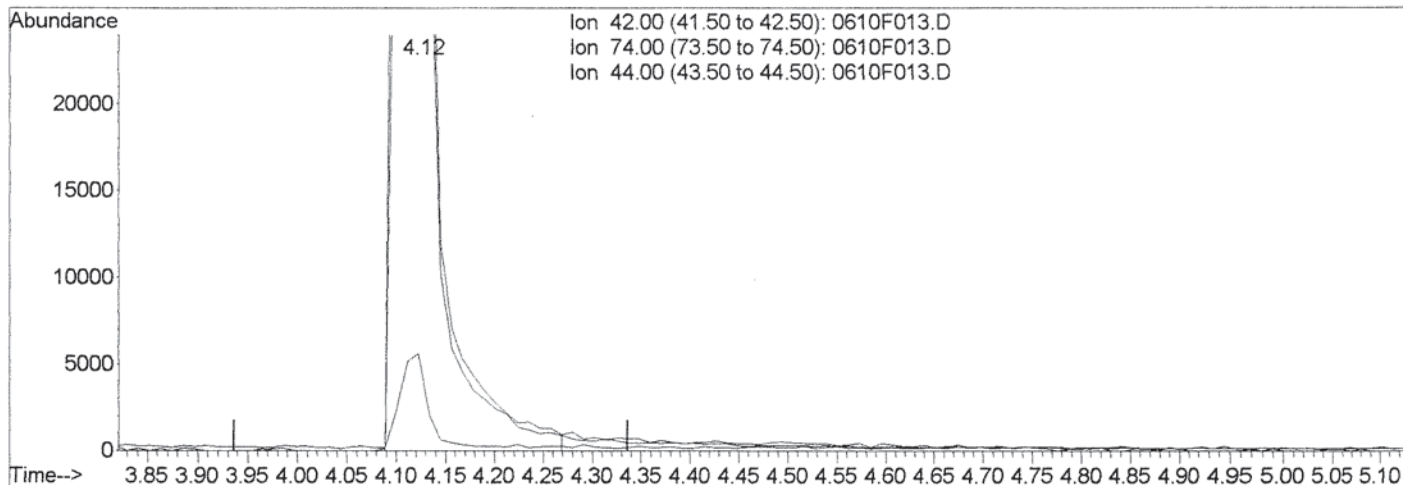
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 7:09 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F013.D

(2) N-Nitrosodimethylamine (T)

4.12min 78.11ug/ml

response 265220

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 75.52 |
| 44.00 | 4.40  | 4.15  |
| 0.00  | 0.00  | 0.00  |

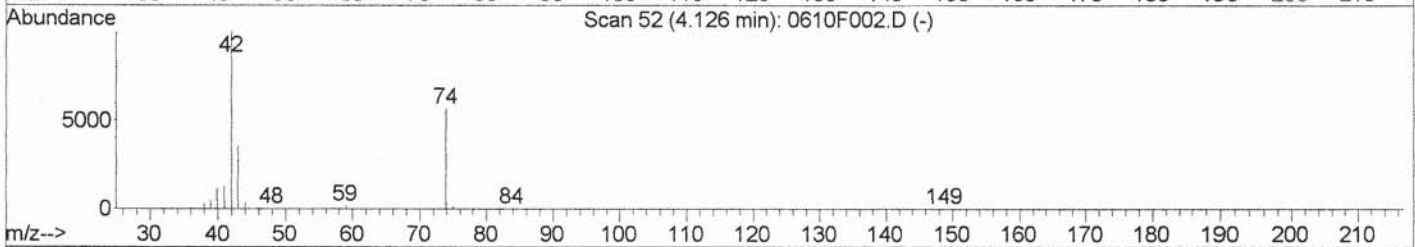
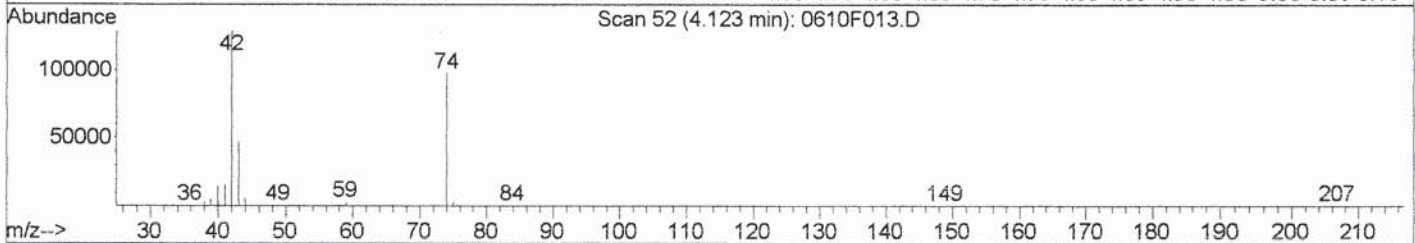
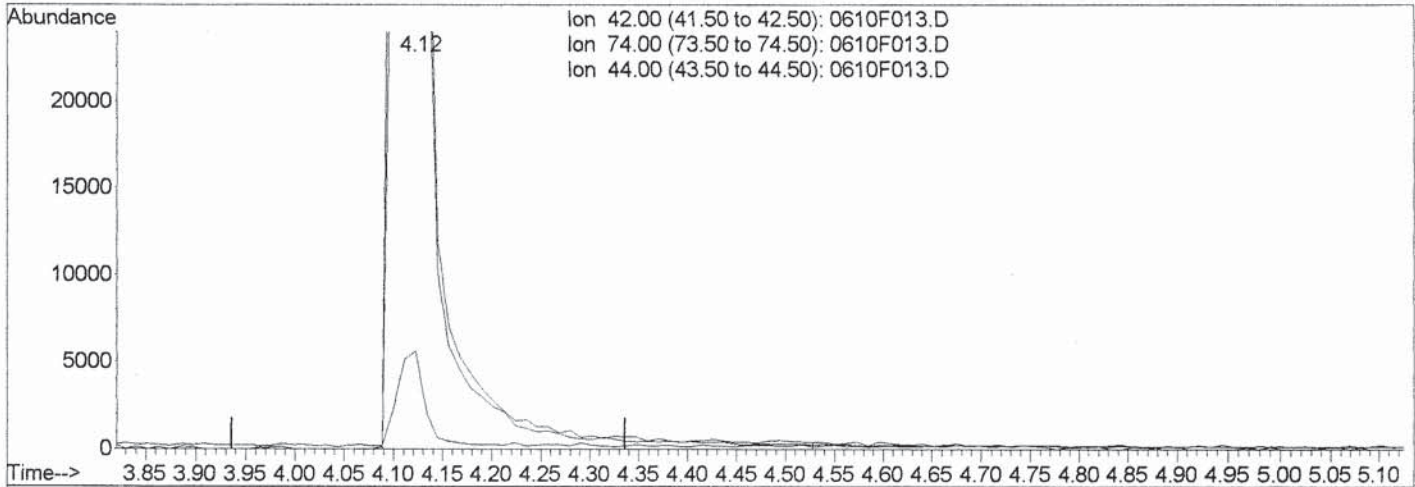
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:41 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F013.D

(2) N-Nitrosodimethylamine (T)

4.12min 80.62ug/ml m

response 273733

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 42.00 | 100   | 100   |
| 74.00 | 79.30 | 75.59 |
| 44.00 | 4.40  | 4.34  |
| 0.00  | 0.00  | 0.00  |

*Handwritten signature/initials*

*Handwritten initials 'LB' and '6/11/10'*



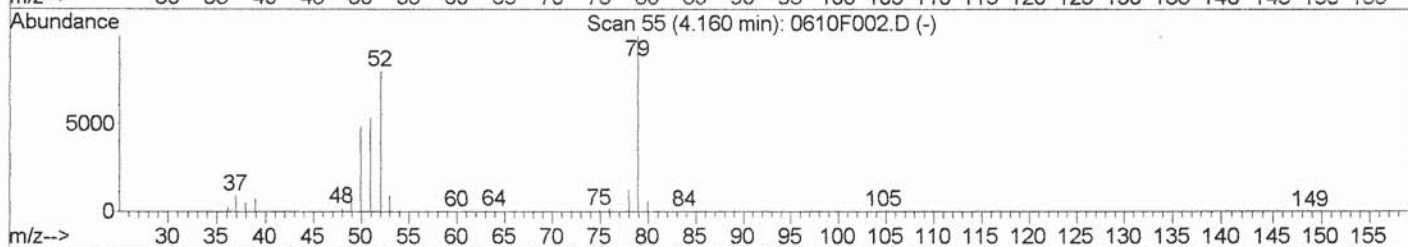
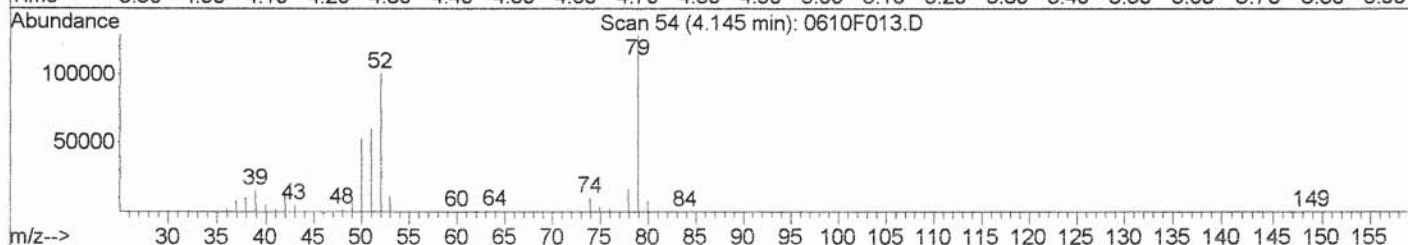
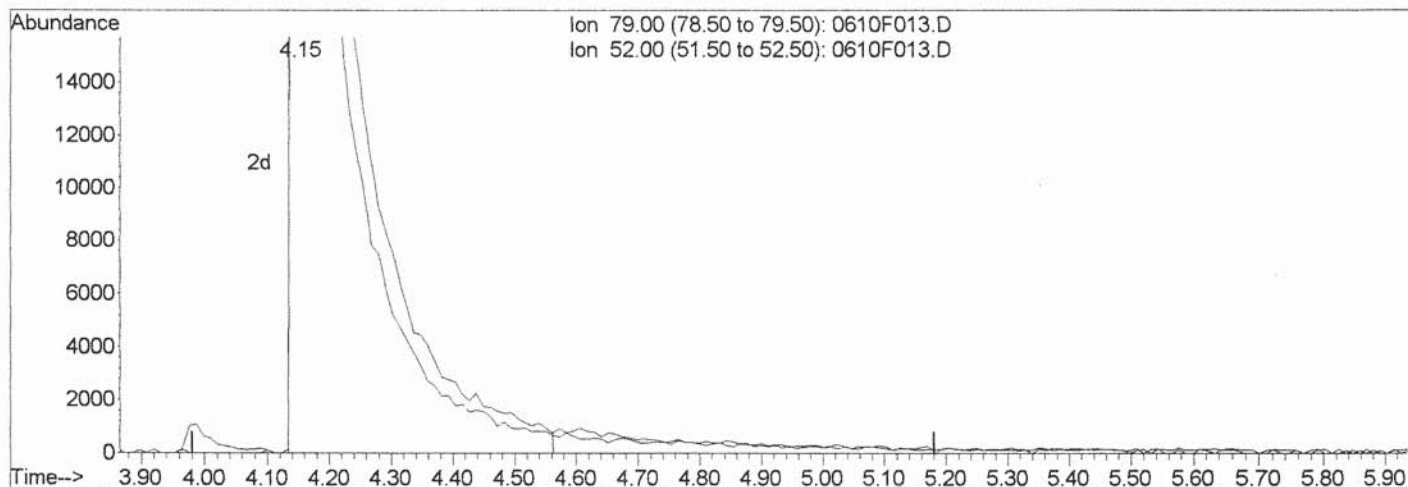
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:41 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F013.D

(3) Pyridine (T)

4.15min 81.14ug/ml

response 390396

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.05 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

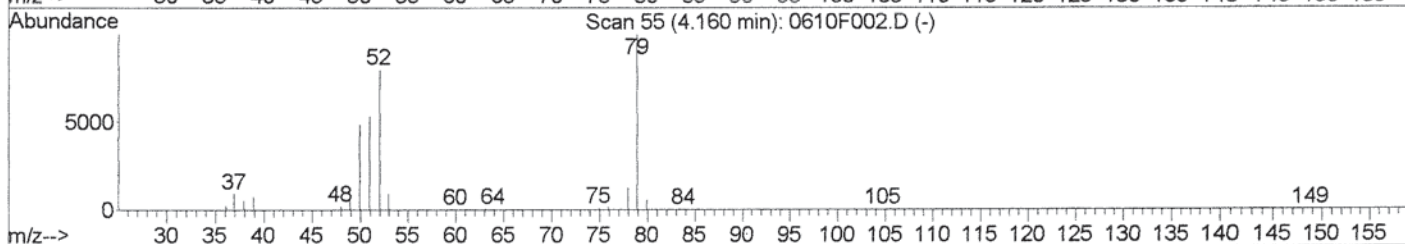
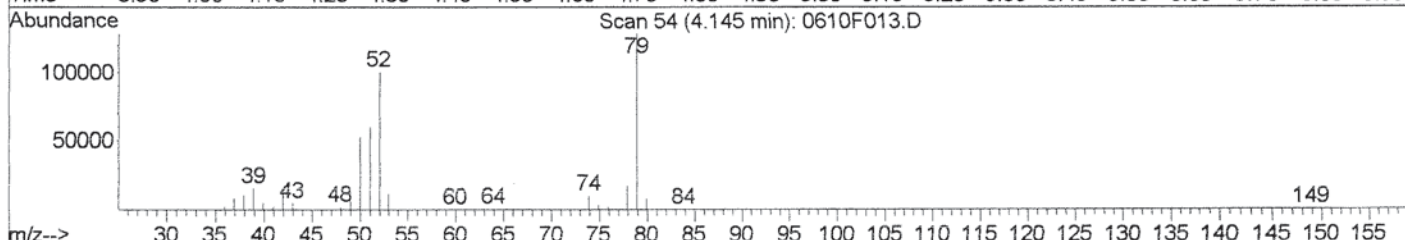
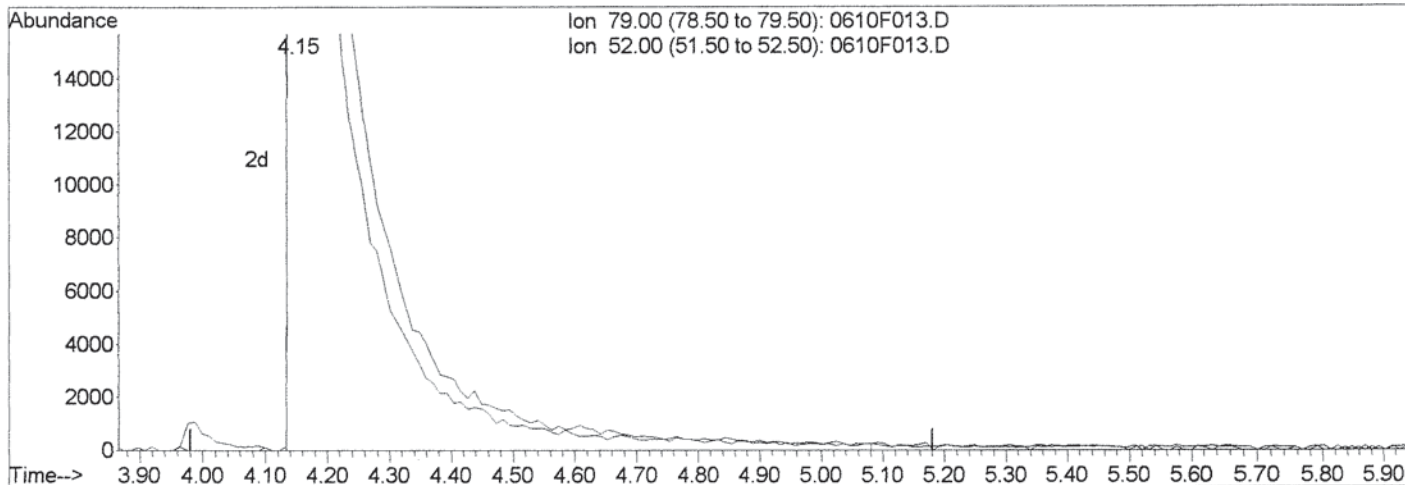
Quantitation Report (Qedit)

Data File : J:\MS07\DATA\061010\0610F013.D  
 Acq On : 10 Jun 2010 10:59 pm  
 Sample : 80PPM 8270 CCV SVM32-40T  
 Misc :  
 MS Integration Params: RTEINT.P  
 Quant Time: Jun 11 11:41 2010

Vial: 11  
 Operator: M.BUTCHER  
 Inst : MS07  
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS07\METHODS\8270\_625\0602BNC7.M (RTE Integrator)  
 Title : BNA Calibration Rtx-5MS 30m x 0.25mm MS07  
 Last Update : Fri Jun 11 08:08:42 2010  
 Response via : Multiple Level Calibration



TIC: 0610F013.D

(3) Pyridine (T)

4.15min 84.03ug/ml m

response 404287

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 79.00 | 100   | 100   |
| 52.00 | 77.00 | 78.09 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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 LB  
 6/11/10

Organic Analysis:  
Semi-Volatile Organic Compounds by GC/MS

Validation Package

Sample Prep and Screen Data



# Preparation Information

|             |              |              |                |
|-------------|--------------|--------------|----------------|
| Group ID:   | KWG1005659   | Prep Method: | EPA 3541       |
| Department: | Semivoa GCMS | Prep Date:   | 06/01/10 05:00 |

| Lab Code     | Client ID                   | Product   | Matrix    | Amt. Ext. | Final Vol. | Solids |
|--------------|-----------------------------|-----------|-----------|-----------|------------|--------|
| K1005175-012 | SJSH-040-CR1A-2             | 8270C SVO | SEDIMENT  | 40.40g    | 1mL        |        |
| K1005244-003 | D-4-16                      | 8270C SVO | MISC. SOL | 33.86g    | 1mL        |        |
| K1005282-003 | SJNE 050-CR1E               | 8270C SVO | SEDIMENT  | 40.09g    | 1mL        |        |
| K1005282-013 | SJNE 030-CR1C               | 8270C SVO | SEDIMENT  | 40.22g    | 1mL        |        |
| K1005284-006 | SJVS 016-GR1                | 8270C SVO | SEDIMENT  | 40.47g    | 1mL        |        |
| K1005353-004 | SJGB 013 S4                 | 8270C SVO | SEDIMENT  | 40.56g    | 1mL        |        |
| K1005353-006 | SJGB 014 S1                 | 8270C SVO | SEDIMENT  | 40.82g    | 1mL        |        |
| K1005353-010 | SJGB 014 S5                 | 8270C SVO | SEDIMENT  | 40.12g    | 1mL        |        |
| K1005353-015 | SJGB 015 S5                 | 8270C SVO | SEDIMENT  | 40.43g    | 1mL        |        |
| K1005353-018 | SJGB 016 S3                 | 8270C SVO | SEDIMENT  | 40.11g    | 1mL        |        |
| K1005353-024 | SJGB 017 S5                 | 8270C SVO | SEDIMENT  | 40.79g    | 1mL        |        |
| KWG1005659-1 | Matrix Spike                | 8270C SVO | SEDIMENT  | 40.35g    | 1mL        |        |
| KWG1005659-2 | Duplicate Matrix Spike      | 8270C SVO | SEDIMENT  | 40.36g    | 1mL        |        |
| KWG1005659-3 | Lab Control Sample          | 8270C SVO | MISC. SOL | 30.00g    | 1mL        |        |
| KWG1005659-4 | Duplicate Lab Control Sampl | 8270C SVO | MISC. SOL | 30.00g    | 1mL        |        |
| KWG1005659-5 | Method Blank                | 8270C SVO | MISC. SOL | 40.82g    | 1mL        |        |

| Lab Code     | Parent Lab Code | Comments     |
|--------------|-----------------|--------------|
| KWG1005659-1 | K1005175-012    | KQ1005080-01 |
| KWG1005659-2 | K1005175-012    | KQ1005080-02 |
| KWG1005659-3 |                 | KQ1005080-03 |
| KWG1005659-4 |                 | KQ1005080-04 |
| KWG1005659-5 |                 | KQ1005080-05 |

| Lab Code     | Prep Event ID | Surrogate Solution ID | Amount Added | Spike Solution ID | Amount Added | Witness |
|--------------|---------------|-----------------------|--------------|-------------------|--------------|---------|
| K1005175-012 | 918258        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005244-003 | 918259        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005282-003 | 918260        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005282-013 | 918261        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005284-006 | 918262        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-004 | 918263        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-006 | 918264        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-010 | 918265        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-015 | 918266        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-018 | 918267        | SVM32-30D             | 1000uL       |                   |              | RLarsen |
| K1005353-024 | 918268        | SVM32-30D             | 1000uL       |                   |              | RLarsen |

Comments: \_\_\_\_\_

*ISS 2/11/10 30 802*

|                                    |                      |  |
|------------------------------------|----------------------|--|
| Started By: <u>LBerg</u>           | Assisted By: _____   | Training <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></span> |
| Completed By: <u>LBerg</u>         | Assisted By: _____   | Yes <input type="checkbox"/> No <input type="checkbox"/>   |
| Reviewed By: <u><i>ABailey</i></u> | Date: <u>6/11/10</u> | Storage: <u>SVM</u>  |

|                                      |                      |   |
|--------------------------------------|----------------------|---|
| Relinquished By: <u><i>LBerg</i></u> | Date: <u>6-10-10</u> | Extracts Examined<br>Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Received By: _____                   | Date: <u>6-11-10</u> |   |

Group ID: KWG1005659      Prep Method: EPA 3541      Prep Date: 06/01/10 05:00  
 Department: Semivoa GCMS

| Lab Code     | Prep Event ID | Surrogate Solution ID | Amount Added | Spike Solution ID | Amount Added | Witness |
|--------------|---------------|-----------------------|--------------|-------------------|--------------|---------|
| KWG1005659-1 | 918269        | SVM32-30D             | 1000uL       | SVM32-19A         | 1000uL       | RLarsen |
| KWG1005659-2 | 918270        | SVM32-30D             | 1000uL       | SVM32-19A         | 1000uL       | RLarsen |
| KWG1005659-3 | 918271        | SVM32-30D             | 1000uL       | SVM32-19A         | 1000uL       | RLarsen |
| KWG1005659-4 | 918272        | SVM32-30D             | 1000uL       | SVM32-19A         | 1000uL       | RLarsen |
| KWG1005659-5 | 918273        | SVM32-30D             | 1000uL       |                   |              | RLarsen |

Comments: \_\_\_\_\_

Started By: LBerg      Assisted By: \_\_\_\_\_      Training: Yes  No   
 Completed By: LBerg      Assisted By: \_\_\_\_\_      Yes  No

Reviewed By: [Signature]      Date: 6/11/10      Storage: SVM

Chain of Custody

|                                     |                      |  |
|-------------------------------------|----------------------|--|
| Relinquished By: <u>[Signature]</u> | Date: <u>6-10-10</u> | Extracts Examined  |
| Received By: <u>[Signature]</u>     | Date: <u>6-11-10</u> | Yes <input type="checkbox"/> No <input type="checkbox"/> |



**Columbia Analytical Services** Preparation Information Benchsheet

**Prep Run:** 112691    **Prep Workflow:** OrgExtS (14)    **Status:** Prepped  
**Team:** Semivoa    **Prep Method:** EPA 3541    **Current Step:** Final Volume    **Prep Date:** 06/01/2010 05:00  
**Analyst:** LBerg    **Rush/NPDES:** N/A    **Due Date:** 06/09/2010

| Lab Code                      | Client ID                    | Bottle # | Target Amt | Initial Amt | Final Volume | TestNo List | Comments |
|-------------------------------|------------------------------|----------|------------|-------------|--------------|-------------|----------|
| K1005175-012                  | SJSH-040-CR1A-2              | .01      | 34.88 g    | 40.40 g     | 1 mL         | SVO         |          |
| K1005244-003                  | D-4-16                       | .03      | 33.08 g    | 33.86 g     | 1 mL         | SVO         |          |
| K1005282-003                  | SJNE 050-CR1E                | .02      | 69.61 g    | 40.09 g     | 1 mL         | SVO         |          |
| K1005282-013                  | SJNE 030-CR1C                | .02      | 41.21 g    | 40.22 g     | 1 mL         | SVO         |          |
| K1005284-006                  | SJVS 016-GR1                 | .01      | 62.50 g    | 40.47 g     | 1 mL         | SVO         |          |
| K1005353-004                  | SJGB 013 S4                  | .02      | 42.74 g    | 40.56 g     | 1 mL         | SVO         |          |
| K1005353-006                  | SJGB 014 S1                  | .02      | 61.86 g    | 40.82 g     | 1 mL         | SVO         |          |
| K1005353-010                  | SJGB 014 S5                  | .02      | 45.87 g    | 40.12 g     | 1 mL         | SVO         |          |
| K1005353-015                  | SJGB 015 S5                  | .02      | 43.60 g    | 40.43 g     | 1 mL         | SVO         |          |
| K1005353-018                  | SJGB 016 S3                  | .02      | 41.38 g    | 40.11 g     | 1 mL         | SVO         |          |
| K1005353-024                  | SJGB 017 S5                  | .02      | 41.15 g    | 40.79 g     | 1 mL         | SVO         |          |
| K1005175-012:<br>KQ1005080-01 | Matrix Spike                 | .01      | 30.00 g    | 40.35 g     | 1 mL         | SVO         |          |
| K1005175-012:<br>KQ1005080-02 | Duplicate Matrix Spike       | .01      | 30.00 g    | 40.36 g     | 1 mL         | SVO         |          |
| KQ1005080-03                  | Lab Control Sample           |          | 30.00 g    | 30.00 g     | 1 mL         | SVO         |          |
| KQ1005080-04                  | Duplicate Lab Control Sample |          | 30.00 g    | 30.00 g     | 1 mL         | SVO         |          |
| KQ1005080-05                  | Method Blank                 |          | 30.00 g    | 40.82 g     | 1 mL         | SVO         |          |

16 Total Samples consisting of 11 Client Samples, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

**Witness:** RLarsen

**Preparation Steps**

| Step       | Started            | Finished           | By    | Assisted By | Training? | Comments |
|------------|--------------------|--------------------|-------|-------------|-----------|----------|
| Extraction | 01-JUN-10<br>05:00 | 02-JUN-10<br>08:00 | LBerg | RAndrell    | N         |          |
|            | 09-JUN-10          | 09-JUN-10          |       |             |           |          |



|              |           |           |         |   |
|--------------|-----------|-----------|---------|---|
| Column Clean | 00:00     | 00:00     | HBailey | N |
|              | 10-JUN-10 | 10-JUN-10 |         |   |
| Final Volume | 00:00     | 00:00     | LBerg   | N |

**Comments**

**Review**

Reviewed by: HBailey Date: 6/11/10

**Chain of Custody**

|                                     |                      |                                     |
|-------------------------------------|----------------------|-------------------------------------|
| Relinquished By: <u>Judith Berg</u> | Date: <u>6-10-10</u> | <u>Extracts/Digestions Examined</u> |
| Received By: _____                  | Date: _____          | Yes _____ No _____                  |

**Columbia Analytical Services** Preparation Information Benchsheet

Prep Run: 112691    Prep Workflow: OrgExtS Status: Draft    Prep Date: 06/01/2010  
 (14)    Current Step: Extraction    11:45  
 Team: Semivoa    Prep Method: EPA    Due Date: 05/31/2010  
 GCMS    3541  
 Analyst: LBERG    Rush/NPDES: N/A

| Lab Code                   | Client ID                    | Bottle # | ✓ | Target Amt | Initial Amount | Inter. Volume | Final Volume | Surr Amt | Spike Amt | TestNo List |
|----------------------------|------------------------------|----------|---|------------|----------------|---------------|--------------|----------|-----------|-------------|
| K1005175-012               | SJSH-040-CR1A-2              | .01      |   | 30.00 g    | 40.40          | 10ml          | 1ml          | 1ml      | -         | SVO         |
| K1005244-003               | D-4-16                       | .03      |   | 33.08 g    | 33.86          |               |              |          | -         | SVO         |
| K1005282-003               | SJNE 050-CR1E                | .02      |   | 69.61 g    | 40.09          |               |              |          | -         | SVO         |
| K1005282-013               | SJNE 030-CR1C                | .02      |   | 41.21 g    | 40.22          |               |              |          | -         | SVO         |
| K1005284-006               | SJVS 016-GR1                 | .01      |   | 62.50 g    | 40.47          |               |              |          | -         | SVO         |
| K1005353-004               | SJGB 013 S4                  | .02      |   | 42.74 g    | 40.56          |               |              |          | -         | SVO         |
| K1005353-006               | SJGB 014 S1                  | .02      |   | 61.86 g    | 40.82          |               |              |          | -         | SVO         |
| K1005353-010               | SJGB 014 S5                  | .02      |   | 45.87 g    | 40.12          |               |              |          | -         | SVO         |
| K1005353-015               | SJGB 015 S5                  | .02      |   | 43.60 g    | 40.43          |               |              |          | -         | SVO         |
| K1005353-018               | SJGB 016 S3                  | .02      |   | 41.38 g    | 40.11          |               |              |          | -         | SVO         |
| K1005353-024               | SJGB 017 S5                  | .02      |   | 41.15 g    | 40.79          |               |              |          | -         | SVO         |
| K1005175-012: KQ1005080-01 | Matrix Spike                 | .01      |   | 30.00 g    | 40.35          |               |              |          | 1ml       | SVO         |
| K1005175-012: KQ1005080-02 | Duplicate Matrix Spike       | .01      |   | 30.00 g    | 40.36          |               |              |          |           | SVO         |
| KQ1005080-03               | Lab Control Sample           |          |   | 30.00 g    | 30.00          |               |              |          |           | SVO         |
| KQ1005080-04               | Duplicate Lab Control Sample |          |   | 30.00 g    | 30.00          |               |              |          |           | SVO         |
| KQ1005080-05               | Method Blank                 |          |   | 30.00 g    | 40.82          |               |              |          |           | SVO         |

16 Total Samples consisting of 11 Client Samples, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

Witness: KLARS

SVM 32-30D, 100/150ppm, XD 11/21/10, 1ml  
SVM 32-194, 100ppm, XD 8/11/10, 1ml

**Preparation Steps**

Step                      Started                      Finished                      By                      Assisted By                      Training?                      Comments

|              |         |         |       |          |
|--------------|---------|---------|-------|----------|
| Extraction   | 1700    | 2000    | LBerg | RAndrell |
| Column Clean | 6-9-10  | 6-9-10  | JP    |          |
| Acid Clean   |         |         |       |          |
| Sulfur Clean |         |         |       |          |
| Final Volume | 6-10-10 | 6-10-10 | JP    |          |

**Comments**

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## GPC RUNLOG

Run Date: 6/8/2010

Calibration Date: 6/2/2010

GPC #: 2

Program Number: 1

| Lab I.D.       | Position | Test | Dilution | Comments |
|----------------|----------|------|----------|----------|
| BLANK          | 1        | 8270 | NA       | NA       |
| KQ1005341-MB   | 2        | 8270 | NA       | NA       |
| KQ1005341-LCS  | 3        | 8270 | NA       | NA       |
| KQ1005341-DLCS | 4        | 8270 | NA       | NA       |
| 5812-1         | 5        | 8270 | NA       | NA       |
| BLANK          | 6        | 8270 | NA       | NA       |
| KQ1005080-MB   | 7        | 8270 | NA       | NA       |
| KQ1005080-LCS  | 8        | 8270 | NA       | NA       |
| KQ1005080-DLCS | 9        | 8270 | NA       | NA       |
| 5175-12        | 10       | 8270 | NA       | NA       |
| 5244-3         | 11       | 8270 | NA       | NA       |
| 5282-3         | 12       | 8270 | NA       | NA       |
| 5282-13        | 13       | 8270 | NA       | NA       |
| 5284-6         | 14       | 8270 | NA       | NA       |
| 5353-4         | 15       | 8270 | NA       | NA       |
| 5353-6         | 16       | 8270 | NA       | NA       |
| 5353-10        | 17       | 8270 | NA       | NA       |
| 5353-15        | 18       | 8270 | NA       | NA       |
| 5353-18        | 19       | 8270 | NA       | NA       |
| 5353-24        | 20       | 8270 | NA       | NA       |
| 5175-12MS      | 21       | 8270 | NA       | NA       |
| 5175-12DMS     | 22       | 8270 | NA       | NA       |
| BLANK          | 23       | 8270 | NA       | NA       |

### Final Volume Calculation

|   |     |  |    |
|---|-----|--|----|
| Intermediate Volume before GPC:               | 10  |  | mL |
| Aliquot taken from intermediate volume:       | 10  |  | mL |
| Aliquot diluted up to....                     | 10  |  | mL |
| Volume Injected onto column:                  | 5   |  | mL |
| GPC'd Extract brought to the Final Volume of: | 0.5 |  | mL |
| Calculated True Final Volume:                 | 1   |  | mL |

Operator Date and Initial: 6/8/2010 HB

Additional Prep Information For EPA 3541

Service Request K1005175-5244-5282-5284-5353 Workgroup KQ1005080

Sulfate Lot # BC1016 DCM (GC<sup>2</sup>) Lot # DB093

Soxtherm Start (Time/Date/Initial): 1700/6.1.10/RA

Soxtherm Stop (Time/Date/Initial): 2000/6.1.10/RA

GPC Clean-up (3640): 6.9.10 (Initial/Date)

S-Evap Temp: 75°C

N-Evap Temp: 30°C

Hexane Exchange for Silica Gel: \_\_\_\_\_ Hexane Lot # \_\_\_\_\_

Silica Gel Clean-up (3630): \_\_\_\_\_ (Initial/Date)

Silica Column Lot # \_\_\_\_\_ 1:1 Hexane/DCM Reagent Lot # \_\_\_\_\_

Extract Storage: SUM

Date Completed: 6.10.10

Comments/Observations:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bench Sheet Review Check List

- Hold Times Met (if no, Reason: \_\_\_\_\_)
- Prep date, dept, method, product code correct in stealth
- Spike Information correct
- Weights/Volumes and units correct on raw and final bench sheets
- Sample IDs have been checked—Bottle numbers appended if required
- Names present for: Started by, Completed by, relinquished by, and witnessed by.
- Training has been circled
- Extract Storage recorded
- Additional Prep Sheet completely filled out ( NA or line out Blanks)
- All clean-ups have been noted on additional prep sheet
- Signed service request with Form V, if applicable, has been attached

# Injection Log

Directory: J:\MS07\DATA\061010

| Line | Vial | FileName   | Multiplier | SampleName               | Misc Info | Injected          |
|------|------|------------|------------|--------------------------|-----------|-------------------|
| 1    | 1    | 0610f001.d | 1.         | 50PPM DFTPP SVM32-14A    |           | 10 Jun 2010 14:51 |
| 2    | 2    | 0610f002.d | 1.         | 80PPM 8270 CCV SVM32-40T |           | 10 Jun 2010 15:32 |
| 3    | 1    | 0610f003.d | 1.         | KQ5341-5 MB              | KW 55-99  | 10 Jun 2010 16:16 |
| 4    | 2    | 0610f004.d | 1.         | KQ5341-3 LCS             |           | 10 Jun 2010 16:56 |
| 5    | 3    | 0610f005.d | 1.         | KQ5341-4 DLCS            |           | 10 Jun 2010 17:37 |
| 6    | 4    | 0610f006.d | 1.         | K1005812-1               |           | 10 Jun 2010 18:17 |
| 7    | 5    | 0610f007.d | 1.         | KQ5080-5 MB              | KW 5659   | 10 Jun 2010 18:58 |
| 8    | 6    | 0610f008.d | 1.         | KQ5080-3 LCS             |           | 10 Jun 2010 19:38 |
| 9    | 7    | 0610f009.d | 1.         | KQ5080-4 DLCS            |           | 10 Jun 2010 20:18 |
| 10   | 8    | 0610f010.d | 1.         | KQ5080-1 K1005175-12 MS  |           | 10 Jun 2010 20:58 |
| 11   | 9    | 0610f011.d | 1.         | KQ5080-2 K1005175-12 DMS |           | 10 Jun 2010 21:38 |
| 12   | 10   | 0610f012.d | 1.         | 50PPM DFTPP SVM32-14A    |           | 10 Jun 2010 22:19 |
| 13   | 11   | 0610f013.d | 1.         | 80PPM 8270 CCV SVM32-40T |           | 10 Jun 2010 22:59 |
| 14   | 5    | 0610f014.d | 1.         | IB                       |           | 10 Jun 2010 23:39 |
| 15   | 12   | 0610f015.d | 1.         | K1005175-12              |           | 11 Jun 2010 00:19 |
| 16   | 13   | 0610f016.d | 1.         | K1005244-3               |           | 11 Jun 2010 01:00 |
| 17   | 14   | 0610f017.d | 1.         | K1005282-3               |           | 11 Jun 2010 01:40 |
| 18   | 15   | 0610f018.d | 1.         | K1005282-13              |           | 11 Jun 2010 02:20 |
| 19   | 16   | 0610f019.d | 1.         | K1005284-6               |           | 11 Jun 2010 03:00 |
| 20   | 17   | 0610f020.d | 1.         | K1005258-4               |           | 11 Jun 2010 03:41 |
| 21   | 18   | 0610f021.d | 1.         | K1005353-6               |           | 11 Jun 2010 04:21 |
| 22   | 19   | 0610f022.d | 1.         | K1005353-15              |           | 11 Jun 2010 05:01 |
| 23   | 20   | 0610f023.d | 1.         | K1005353-18              |           | 11 Jun 2010 05:41 |
| 24   | 21   | 0610f024.d | 1.         | K1005353-10              |           | 11 Jun 2010 06:22 |

STANBMS # 204432  
ICAL 9525

M 6-11-10

WB 6114110



# Injection Log

Directory: J:\MS07\DATA\061010

| Line          | Vial         | FileName              | Multiplier    | SampleName                          | Misc Info | Injected                     |
|---------------|--------------|-----------------------|---------------|-------------------------------------|-----------|------------------------------|
| <del>1</del>  | <del>1</del> | <del>0610f001.d</del> | <del>1</del>  | <del>50PPM DFTPP SVM32-14A</del>    |           | <del>10 Jun 2010 14:51</del> |
| <del>2</del>  | <del>2</del> | <del>0610f002.d</del> | <del>1.</del> | <del>80PPM 8270 CCV SVM32-40T</del> |           | <del>10 Jun 2010 15:32</del> |
| <del>3</del>  | <del>1</del> | <del>0610f003.d</del> | <del>1.</del> | <del>KQ5341-5 MB</del>              |           | <del>10 Jun 2010 16:16</del> |
| <del>4</del>  | <del>2</del> | <del>0610f004.d</del> | <del>1.</del> | <del>KQ5341-3 LCS</del>             |           | <del>10 Jun 2010 16:56</del> |
| <del>5</del>  | <del>3</del> | <del>0610f005.d</del> | <del>1.</del> | <del>KQ5341-4 DLCS</del>            |           | <del>10 Jun 2010 17:37</del> |
| <del>6</del>  | <del>4</del> | <del>0610f006.d</del> | <del>1.</del> | <del>K1005812-1</del>               |           | <del>10 Jun 2010 18:17</del> |
| <del>7</del>  | <del>5</del> | <del>0610f007.d</del> | <del>1.</del> | <del>KQ5080-5 MB</del>              |           | <del>10 Jun 2010 18:58</del> |
| <del>8</del>  | <del>6</del> | <del>0610f008.d</del> | <del>1.</del> | <del>KQ5080-3 LCS</del>             |           | <del>10 Jun 2010 19:38</del> |
| <del>9</del>  | <del>7</del> | <del>0610f009.d</del> | <del>1.</del> | <del>KQ5080-4 DLCS</del>            |           | <del>10 Jun 2010 20:18</del> |
| <del>10</del> | <del>8</del> | <del>0610f010.d</del> | <del>1.</del> | <del>KQ5080-1 K1005175-12 MS</del>  |           | <del>10 Jun 2010 20:58</del> |
| <del>11</del> | <del>9</del> | <del>0610f011.d</del> | <del>1.</del> | <del>KQ5080-2 K1005175-12 DMS</del> |           | <del>10 Jun 2010 21:38</del> |
| 12            | 10           | 0610f012.d            | 1.            | 50PPM DFTPP SVM32-14A               |           | 10 Jun 2010 22:19            |
| 13            | 11           | 0610f013.d            | 1.            | 80PPM 8270 CCV SVM32-40T            |           | 10 Jun 2010 22:59            |
| 14            | 5            | 0610f014.d            | 1.            | IB                                  |           | 10 Jun 2010 23:39            |
| 15            | 12           | 0610f015.d            | 1.            | K1005175-12                         |           | 11 Jun 2010 00:19            |
| 16            | 13           | 0610f016.d            | 1.            | K1005244-3                          |           | 11 Jun 2010 01:00            |
| 17            | 14           | 0610f017.d            | 1.            | K1005282-3                          |           | 11 Jun 2010 01:40            |
| 18            | 15           | 0610f018.d            | 1.            | K1005282-13                         |           | 11 Jun 2010 02:20            |
| 19            | 16           | 0610f019.d            | 1.            | K1005284-6 <i>SL</i>                |           | 11 Jun 2010 03:00            |
| 20            | 17           | 0610f020.d            | 1.            | K1005258-4 <i>5353-4</i>            |           | 11 Jun 2010 03:41            |
| 21            | 18           | 0610f021.d            | 1.            | K1005353-6                          |           | 11 Jun 2010 04:21            |
| 22            | 19           | 0610f022.d            | 1.            | K1005353-15                         |           | 11 Jun 2010 05:01            |
| 23            | 20           | 0610f023.d            | 1.            | K1005353-18                         |           | 11 Jun 2010 05:41            |
| 24            | 21           | 0610f024.d            | 1.            | K1005353-10                         |           | 11 Jun 2010 06:22            |
| 25            | 22           | 0610f025.d            | 1.            | K1005353-24                         |           | 11 Jun 2010 07:02            |
| 26            | 23           | 0610f026.d            | 1.            | K1005012-14                         |           | 11 Jun 2010 07:41            |
| 27            | 24           | 0610f027.d            | 1.            | K1005012-15 <i>SL</i>               |           | 11 Jun 2010 08:21            |
| 28            | 25           | 0610f028.d            | 1.            | K1005012-17 <i>SL</i>               |           | 11 Jun 2010 09:02            |
| 29            | 26           | 0610f029.d            | 1.            | K1005012-18 <i>SL</i>               |           | 11 Jun 2010 09:42            |

*STARTIMS # 204514*

*CCV 9525*

*M. 6-11-10*

*LB 6114110*

**Subcontract  
Laboratory Results**



**Professional  
Analytical  
Services**

**Am Test Inc.**  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664

Jun 11 2010  
COLUMBIA ANALYTICAL SERVICES  
1317 SOUTH 13TH AVENUE  
KELSO, WA 98626  
Attention: Pradeep Divvela

Dear Pradeep Divvela:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

| CLIENT ID | MATRIX        | AMTEST ID  | TEST |
|-----------|---------------|------------|------|
| D-4-16    | Miscellaneous | 10-A008256 | NUT  |

Your sample was received on Tuesday, May 25, 2010. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Method Detection Limits (MDL's), as opposed to Practical Quantitation Limits (PQL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Kathy Fugiel  
President

PO Number: K1005244

BACT = Bacteriological  
CONV = Conventional  
TC=Total Coliforms

MET = Metals  
ORG = Organics

NUT=Nutrients  
DEM=Demand

MIN=Minerals  
APC=Aerobic Plate Count



**Columbia Analytical Services, Inc. Chain of Custody**  
 1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1079

CAS Contact: Pradeep Divvela

Project Number: K1005244  
 Project Manager: Pradeep Divvela

7.1 Temp

| Lab Code     | Sample ID | # of Cont. | Matrix      | Sample             |        |                    |
|--------------|-----------|------------|-------------|--------------------|--------|--------------------|
|              |           |            |             | Date               | Time   | Lab ID             |
| K1005244-003 | D-4-16    | 1-4 oz     | Misc. Solid | 5/19/10            | 1245   | ACZ <i>pradeep</i> |
|              |           |            |             | MISC_OUT_2<br>None | Amles! | 1                  |
|              |           |            |             | MISC_OUT_3<br>None | Amles! | 1                  |

8256-72

*Wk caution. Open in hood. MSDS included*

TKN-5

Test Comments  
 MISC\_OUT\_2 - None K1005244-003  
 MISC\_OUT\_3 - None K1005244-003

Total Nitrogen Subcontracted to AMtest SM4500 N C per Melissa Kleven's request.  
 TKN by 351.

Folder Comments:  
 Samples will have strong ammonia smell when opened.

*Water contact with doors under certain circumstances is known to produce hydrogen, methane, Acetylene and ammonia gas.*

Special Instructions/Comments  
 Please provide the electronic (PDF and EDD) report to the following e-mail address:  
 kelso\_data@caslab.com

| Turnaround Requirements   | Report Requirements   | Invoice Information        |
|---|---|----------------------------|
| <input type="checkbox"/> RUSH (Surcharges Apply)<br><b>PLEASE CIRCLE WORK DAYS</b><br>1 2 3 4 5<br><input checked="" type="checkbox"/> STANDARD<br>Requested FAX Date: _____<br>Requested Report Date: 06/12/10 | <input type="checkbox"/> I. Results Only<br><input type="checkbox"/> II. Results + QC Summaries<br><input type="checkbox"/> III. Results + QC and Calibration Summaries<br><input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data<br>POL/MDL/1<br>EDD <input checked="" type="checkbox"/> Y | PO#<br>K1005244<br>Bill to |

Relinquished By: *[Signature]* 5/24/10 1435

Received By: *[Signature]*

Airbill Number: \_\_\_\_\_

Am Test Inc.  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664  
www.amtestlab.com



Professional  
Analytical  
Services

### ANALYSIS REPORT

COLUMBIA ANALYTICAL SERVICES  
1317 SOUTH 13TH AVENUE  
KELSO, WA 98626  
Attention: Pradeep Divvela  
PO Number: K1005244  
All results reported on an as received basis.

Date Received: 05/25/10  
Date Reported: 6/11/10

AMTEST Identification Number 10-A008256  
Client Identification D-4-16  
Sampling Date 05/19/10, 12:45

#### Nutrients

| PARAMETER            | RESULT | UNITS | Q | D.L. | METHOD     | ANALYST | DATE     |
|----------------------|--------|-------|---|------|------------|---------|----------|
| Total Nitrogen (TKN) | 630    | ug/g  |   | 5.0  | SM 4500N C | KK      | 06/01/10 |
| Nitrogen (Total)     | 1400   | ug/g  |   |      | 416        | KK      | 05/27/10 |



Kathy Fugiel  
President

**QC Summary for sample number: 10-A008256**

**DUPLICATES**

| SAMPLE #   | ANALYTE              | UNITS | SAMPLE VALUE | DUP VALUE | RPD |
|------------|----------------------|-------|--------------|-----------|-----|
| 10-A008256 | Total Nitrogen (TKN) | ug/g  | 630          | 530       | 17. |
| 10-A008256 | Nitrogen (Total)     | ug/g  | 1400         | 1600      | 13. |

**STANDARD REFERENCE MATERIALS**

| ANALYTE              | UNITS | TRUE VALUE | MEASURED VALUE | RECOVERY |
|----------------------|-------|------------|----------------|----------|
| Total Nitrogen (TKN) | ug/g  | 2500       | 2400           | 96.0 %   |
| Nitrogen (Total)     | ug/g  | 10000      | 12000          | 120. %   |

**BLANKS**

| ANALYTE              | UNITS | RESULT |
|----------------------|-------|--------|
| Total Nitrogen (TKN) | ug/g  | < 5    |
| Nitrogen (Total)     | ug/g  | < 5    |



**Orthophosphate**  
**Edge Analytical, WA**



|                  |   |
|------------------|---|
| Burlington WA    | 1620 S Walnut St - 98233                      |
| Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax |
| Bellingham WA    | 805 Orchard Dr Suite 4 - 98225                |
| Microbiology     | 360.671.0688 • 360.671.1577fax                |

May 28, 2010

Page 1 of 1

Pradeep Divvela  
Columbia Analytical Services  
PO BOX 479  
Kelso, WA 98626

RE: 10-07291 - K1005244

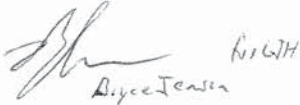
Dear Pradeep Divvela,

Your project: K1005244, was received on Tuesday May 25, 2010.  
The following comments are reported for your project:

Sample was extracted using 5 grams in 50 mLs DI water. Sample was shaken and settled out. Supernatant was analyzed by SM4500-P F, results are as received.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,



Lawrence J Henderson

Lawrence J Henderson, PhD  
Director of Laboratories

Enclosures Data Report  
QC Reports  
Chain of Custody



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 Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax  
 Bellingham WA | 805 Orchard Dr Suite 4 - 98225  
 Microbiology | 360.671.0688 • 360.671.1577fax

## Data Report

Client Name: Columbia Analytical Services  
 PO BOX 479  
 Kelso, WA 98626

Reference Number: **10-07291**  
 Project: K1005244

Report Date: 5/27/10

Date Received: 5/25/10

Reviewed by: *imp*

Sample Description: K1005244-003 - D-4-16  
 Lab Number: 15976

Sample Date: 5/19/10  
 Collected By: Unknown

| CAS ID#    | Parameter       | Result | PQL  | MDL | Units | DF  | Method     | Analyzed | Analyst | Batch        | Comment |
|------------|-----------------|--------|------|-----|-------|-----|------------|----------|---------|--------------|---------|
| 14265-44-2 | ORTHO-PHOSPHATE | 0.50   | 0.10 |     | mg/Kg | 1.0 | SM4500-P F | 5/26/10  | SPL     | OPHOS-100526 |         |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.





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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-07291  
 Report Date: 05/27/10

| Batch        | Analyte         | Result | True  |       | Method     | %        |        | QC              |  | Comment |
|--------------|-----------------|--------|-------|-------|------------|----------|--------|-----------------|--|---------|
|              |                 |        | Value | Units |            | Recovery | Limits | Qualifier Type* |  |         |
| OPHOS-100526 | ORTHO-PHOSPHATE | 1.00   | 1.00  | mg/L  | SM4500-P F | 100      | 80-120 | LFB             |  |         |

**\*Notation:**

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



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 Bellingham WA | 805 Orchard Dr Suite 4 - 98225  
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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-07291

Report Date: 05/27/10

| Batch        | Analyte         | Result | True  |       | Method     | % Recovery Limits |                 | QC  |  | Comment |
|--------------|-----------------|--------|-------|-------|------------|-------------------|-----------------|-----|--|---------|
|              |                 |        | Value | Units |            | Recovery          | Qualifier Type* |     |  |         |
| OPHOS-100526 | ORTHO-PHOSPHATE | ND     |       | mg/L  | SM4500-P F | 0.10000           |                 | LRB |  |         |

**\*Notation:**

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-07291  
 Report Date: 05/27/10

| Batch        | Analyte         | Result | True  |       | Method     | %        |        | QC              |  | Comment |
|--------------|-----------------|--------|-------|-------|------------|----------|--------|-----------------|--|---------|
|              |                 |        | Value | Units |            | Recovery | Limits | Qualifier Type* |  |         |
| OPHOS-100526 | ORTHO-PHOSPHATE | ND     |       | mg/L  | SM4500-P F | 0.10000  |        | MB              |  |         |

**\*Notation:**

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.





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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-07291

Report Date: 05/27/10

| Batch        | Analyte         | Result | True  |       | Method     | %        |        | QC              |     | Comment |
|--------------|-----------------|--------|-------|-------|------------|----------|--------|-----------------|-----|---------|
|              |                 |        | Value | Units |            | Recovery | Limits | Qualifier Type* |     |         |
| OPHOS-100526 | ORTHO-PHOSPHATE | 0.50   | 0.49  | mg/L  | SM4500-P F | 102      | 80-120 |                 | QCS |         |

**\*Notation:**

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



**QUALITY CONTROL REPORT**  
**Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report**

Reference Number: 10-07291

Report Date: 5/27/2010

**Duplicate**

| Batch        | Sample | Analyte         | Result | Duplicate Result | Units | %RPD | Limits | QC | Qualifier | Type | Comments |
|--------------|--------|-----------------|--------|------------------|-------|------|--------|----|-----------|------|----------|
| OPHOS-100526 | 15976  | ORTHO-PHOSPHATE | 0.50   | 0.50             | mg/Kg | 0.0  | 0-50   |    |           | DUP  |          |

%RPD = Relative Percent Difference  
 NA = Indicates %RPD could not be calculated  
 Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.  
 Only Duplicate sample with detections are listed in this report

**Matrix Spike**

| Batch        | Sample | Analyte         | Result | Spike  |      | Duplicate |      | Units | Percent Recovery |     | Limits | %RPD | Limits | Qualifier | Type | Comments |
|--------------|--------|-----------------|--------|--------|------|-----------|------|-------|------------------|-----|--------|------|--------|-----------|------|----------|
|              |        |                 |        | Result | Conc | Result    | Conc |       | MS               | MSD |        |      |        |           |      |          |
| OPHOS-100526 | 15976  | ORTHO-PHOSPHATE | 0.50   | 10.6   | 11.0 | 10.0      | 10.0 | mg/Kg | 101              | 105 | 70-130 | 3.9  | 0-50   |           |      | LFM      |

%RPD = Relative Percent Difference  
 NA = Indicates %RPD could not be calculated  
 Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.  
 Only Duplicate sample with detections are listed in this report



Columbia Analytical Services, Inc. Chain of Custody

CAS Contact: Pradeep Divvela

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1079

Project Number: K1005244  
Project Manager: Pradeep Divvela

After: - Mary Price  
Chemist AT

| Lab Code     | Sample ID | # of Cont. | Matrix      | Date    | Time | Lab ID    |
|--------------|-----------|------------|-------------|---------|------|-----------|
| K1005244-003 | D4-16     | 1-202      | Misc. Solid | 5/19/10 | 1245 | Edge Ana. |

Wk caution. open in hood. WWS included

Test Comments: MISC\_OUT\_1 - None  
K1005244-003  
Orthophosphate by Method 9056 subcontracted to Edge Analytical per Melissa Kieven's request.

Folder Comments: Samples will have strong ammonia smell when opened. to produce

Water contact with down under certain circumstances in known  
Hydrogen, Meltrane, Acetylene and Ammonia gas

10-07291  
15976  
10-07291

|  |  |   |  |   |  |   |  |
|--|--|---|--|---|--|---|--|
| <b>Special Instructions/Comments</b><br>Please provide the electronic (PDF and EDD) report to the following e-mail address:<br>keiso_data@caslab.com |  | <b>Turnaround Requirements</b><br>RUSH (Surcharges Apply)<br>PLEASE CIRCLE WORK DAYS<br>1 2 3 4 5<br>STANDARD<br>Requested FAX Date: _____<br>Requested Report Date: 06/12/10 |  | <b>Report Requirements</b><br>I. Results Only _____<br>II. Results + QC Summaries _____<br>III. Results + QC and Calibration Summaries _____<br>IV. Data Validation Report with Raw Data _____<br>POL/MDL/ EDD _____<br>Y <u>APPM</u> |  | <b>Invoice Information</b><br>PO# K1005244<br>Bill to _____ |  |
|--|--|---|--|---|--|---|--|

Relinquished By: [Signature] Received By: HH Airbill Number: 5-25-10 0850

July 1, 2010

Analytical Report for Service Request No: K1004467

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglar Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the additional pages for the samples submitted to our laboratory on May 05, 2010. For your reference, these analyses have been assigned our service request number K1004467.

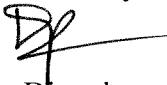
Results for “Phosphate as Orthophosphate” enclosed.

Analyses were performed according to our laboratory’s NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [PDivvela@caslab.com](mailto:PDivvela@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Pradeep Divvela  
Project Chemist

PD/lb

Page 1 of 2

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** 05/04/10  
**Date Received :** 05/05/10

Phosphate as Orthophosphate

**Analysis Method :** 365.3  
**Test Notes :**

Units : mg/L  
Basis : NA

| <b>Sample Name</b> | <b>Lab Code</b> | <b>MRL</b> | <b>MDL</b> | <b>Dilution<br/>Factor</b> | <b>Date/Time<br/>Analyzed</b> | <b>Result</b> | <b>Result<br/>Notes</b> |
|--------------------|-----------------|------------|------------|----------------------------|-------------------------------|---------------|-------------------------|
| BH-13              | K1004467-001    | 0.031      | 0.013      | 1                          | 05/05/10 15:00                | 0.089         |                         |
| Method Blank       | K1004467-MB     | 0.031      | 0.013      | 1                          | 05/05/10 15:00                | ND            |                         |



June 1, 2010

Analytical Report for Service Request No: K1004467

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglur Kronquist/0907194.000.0601**

Dear Melissa:

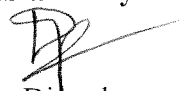
Enclosed are the results of the sample submitted to our laboratory on May 05, 2010. For your reference, these analyses have been assigned our service request number K1004467.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [PDivvela@caslab.com](mailto:PDivvela@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**

  
Pradeep Divvela  
Project Chemist

PD/ln

Page 1 of 338

## Acronyms

|            |  |
|------------|--|
| ASTM       | American Society for Testing and Materials   |
| A2LA       | American Association for Laboratory Accreditation  |
| CARB       | California Air Resources Board   |
| CAS Number | Chemical Abstract Service registry Number  |
| CFC        | Chlorofluorocarbon   |
| CFU        | Colony-Forming Unit  |
| DEC        | Department of Environmental Conservation   |
| DEQ        | Department of Environmental Quality  |
| DHS        | Department of Health Services  |
| DOE        | Department of Ecology  |
| DOH        | Department of Health   |
| EPA        | U. S. Environmental Protection Agency  |
| ELAP       | Environmental Laboratory Accreditation Program   |
| GC         | Gas Chromatography   |
| GC/MS      | Gas Chromatography/Mass Spectrometry   |
| LUFT       | Leaking Underground Fuel Tank  |
| M          | Modified   |
| MCL        | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL        | Method Detection Limit   |
| MPN        | Most Probable Number   |
| MRL        | Method Reporting Limit   |
| NA         | Not Applicable   |
| NC         | Not Calculated   |
| NCASI      | National Council of the Paper Industry for Air and Stream Improvement  |
| ND         | Not Detected   |
| NIOSH      | National Institute for Occupational Safety and Health  |
| PQL        | Practical Quantitation Limit   |
| RCRA       | Resource Conservation and Recovery Act   |
| SIM        | Selected Ion Monitoring  |
| TPH        | Total Petroleum Hydrocarbons   |
| tr         | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.                           |

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.



**Columbia Analytical Services, Inc.**  
**Kelso, WA**  
**State Certifications, Accreditations, and Licenses**

| <b>Program</b>         | <b>Number</b> |
|------------------------|---------------|
| Alaska DEC UST         | UST-040       |
| Arizona DHS            | AZ0339        |
| Arkansas - DEQ         | 88-0637       |
| California DHS         | 2286          |
| Colorado DPHE          | -             |
| Florida DOH            | E87412        |
| Hawaii DOH             | -             |
| Idaho DHW              | -             |
| Indiana DOH            | C-WA-01       |
| Louisiana DEQ          | 3016          |
| Louisiana DHH          | LA050010      |
| Maine DHS              | WA0035        |
| Michigan DEQ           | 9949          |
| Minnesota DOH          | 053-999-368   |
| Montana DPHHS          | CERT0047      |
| Nevada DEP             | WA35          |
| New Jersey DEP         | WA005         |
| New Mexico ED          | -             |
| North Carolina DWQ     | 605           |
| Oklahoma DEQ           | 9801          |
| Oregon - DHS           | WA200001      |
| South Carolina DHEC    | 61002         |
| Utah DOH               | COLU          |
| Washington DOE         | C1203         |
| Wisconsin DNR          | 998386840     |
| Wyoming (EPA Region 8) | -             |

## **Case Narrative**





**Chain of Custody  
Documentation**







## **General Chemistry Parameters**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Chloride

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL  | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|------|------|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 0.20 | 0.06 | 2               | 05/20/10      | 11.5   |              |
| Method Blank | K1004467-MB  | 0.20 | 0.03 | 1               | 05/20/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004923-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Analysis Method | MRL  | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|----------|-----------------|------|---------------|-------------------------|---------|-----------------------------|--------------|
| Chloride | 300.0           | 0.20 | 9.83          | 9.76                    | 9.80    | <1                          |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004923-002MS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Analysis Method | MRL  | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|----------|-----------------|------|-------------|---------------|----------------------|------------------|--|--------------|
| Chloride | 300.0           | 0.20 | 3.00        | 9.83          | 13.0                 | 106              | 80-120                                 |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004467-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|          |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Chloride | NONE        | 300.0           | 5.00       | 5.02   | 100              | 80-120                             |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004467  
Date Collected : NA  
Date Received : NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/20/2010     | 5.00       | 5.12           | 102              |
| CCV2 Result | 5/20/2010     | 5.00       | 5.06           | 101              |
| CCV3 Result | 5/20/2010     | 5.00       | 5.02           | 100              |
| CCV4 Result | 5/20/2010     | 5.00       | 4.97           | 99               |
| CCV5 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV6 Result | 5/20/2010     | 5.00       | 4.96           | 99               |
| CCV7 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV8 Result | 5/21/2010     | 5.00       | 4.95           | 99               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/20/2010     | 0.20 | ND          |
| CCB2 Result | 5/20/2010     | 0.20 | ND          |
| CCB3 Result | 5/20/2010     | 0.20 | ND          |
| CCB4 Result | 5/20/2010     | 0.20 | ND          |
| CCB5 Result | 5/20/2010     | 0.20 | ND          |
| CCB6 Result | 5/20/2010     | 0.20 | ND          |
| CCB7 Result | 5/20/2010     | 0.20 | ND          |
| CCB8 Result | 5/21/2010     | 0.20 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Fluoride

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|------|-------|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 0.20 | 0.01  | 2               | 05/20/10      | 0.30   |              |
| Method Blank | K1004467-MB  | 0.20 | 0.003 | 1               | 05/20/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004923-002DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| <b>Analyte</b> | <b>Analysis Method</b> | <b>MRL</b> | <b>Sample Result</b> | <b>Duplicate Sample Result</b> | <b>Average</b> | <b>Relative Percent Difference</b> | <b>Result Notes</b> |
|----------------|------------------------|------------|----------------------|--------------------------------|----------------|------------------------------------|---------------------|
| Fluoride       | 300.0                  | 0.20       | ND                   | ND                             | ND             | -                                  |                     |



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Matrix Spike Summary  
Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004923-002MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| <b>Analyte</b> | <b>Analysis Method</b> | <b>MRL</b> | <b>Spike Level</b> | <b>Sample Result</b> | <b>Spiked Sample Result</b> | <b>Percent Recovery</b> | <b>CAS Percent Recovery Acceptance Limits</b> | <b>Result Notes</b> |
|----------------|------------------------|------------|--------------------|----------------------|-----------------------------|-------------------------|---|---------------------|
| Fluoride       | 300.0                  | 0.20       | 3.00               | ND                   | 3.23                        | 108                     | 80-120  |                     |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004467-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS      |                   | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|----------|-------------------|--------------|
|          |             |                 |            |        |                  | Recovery | Acceptance Limits |              |
| Fluoride | NONE        | 300.0           | 13.5       | 13.9   | 103              | 90-110   |                   |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/20/2010     | 5.00       | 5.02           | 100              |
| CCV2 Result | 5/20/2010     | 5.00       | 4.99           | 100              |
| CCV3 Result | 5/20/2010     | 5.00       | 5.00           | 100              |
| CCV4 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV5 Result | 5/20/2010     | 5.00       | 4.96           | 99               |
| CCV6 Result | 5/20/2010     | 5.00       | 5.00           | 100              |
| CCV7 Result | 5/20/2010     | 5.00       | 4.92           | 98               |
| CCV8 Result | 5/21/2010     | 5.00       | 4.93           | 99               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/20/2010     | 0.20 | ND          |
| CCB2 Result | 5/20/2010     | 0.20 | ND          |
| CCB3 Result | 5/20/2010     | 0.20 | ND          |
| CCB4 Result | 5/20/2010     | 0.20 | ND          |
| CCB5 Result | 5/20/2010     | 0.20 | ND          |
| CCB6 Result | 5/20/2010     | 0.20 | ND          |
| CCB7 Result | 5/20/2010     | 0.20 | ND          |
| CCB8 Result | 5/21/2010     | 0.20 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Sulfate

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL  | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|------|------|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 2.0  | 0.1  | 10              | 05/20/10      | 36.2   |              |
| Method Blank | K1004467-MB  | 0.20 | 0.01 | 1               | 05/20/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004923-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte | Analysis Method | MRL  | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------|-----------------|------|---------------|-------------------------|---------|-----------------------------|--------------|
| Sulfate | 300.0           | 0.20 | 7.97          | 7.85                    | 7.91    | 2                           |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004923-002MS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte | Analysis Method | MRL  | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS              | Result Notes |
|---------|-----------------|------|-------------|---------------|----------------------|------------------|------------------|--------------|
|         |                 |      |             |               |                      |                  | Percent Recovery |              |
| Sulfate | 300.0           | 0.20 | 3.00        | 7.97          | 11.3                 | 111              | 80-120           |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Laboratory Control Sample  
**Lab Code :** K1004467-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| <b>Analyte</b> | <b>Prep Method</b> | <b>Analysis Method</b> | <b>True Value</b> | <b>Result</b> | <b>Percent Recovery</b> | <b>CAS Percent Recovery Acceptance Limits</b> | <b>Result Notes</b> |
|----------------|--------------------|------------------------|-------------------|---------------|-------------------------|---|---------------------|
| Sulfate        | NONE               | 300.0                  | 5.00              | 4.84          | 97                      | 90-110  |                     |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/20/2010     | 5.00       | 5.05           | 101              |
| CCV2 Result | 5/20/2010     | 5.00       | 5.10           | 102              |
| CCV3 Result | 5/20/2010     | 5.00       | 4.98           | 100              |
| CCV4 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV5 Result | 5/20/2010     | 5.00       | 4.96           | 99               |
| CCV6 Result | 5/20/2010     | 5.00       | 4.95           | 99               |
| CCV7 Result | 5/20/2010     | 5.00       | 4.94           | 99               |
| CCV8 Result | 5/21/2010     | 5.00       | 4.94           | 99               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/20/2010     | 0.20 | ND          |
| CCB2 Result | 5/20/2010     | 0.20 | ND          |
| CCB3 Result | 5/20/2010     | 0.20 | ND          |
| CCB4 Result | 5/20/2010     | 0.20 | ND          |
| CCB5 Result | 5/20/2010     | 0.20 | ND          |
| CCB6 Result | 5/20/2010     | 0.20 | ND          |
| CCB7 Result | 5/20/2010     | 0.20 | ND          |
| CCB8 Result | 5/21/2010     | 0.20 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Ammonia as Nitrogen, Dissolved

Analysis Method : 350.1  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 0.050 | 0.020 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004467-MB  | 0.050 | 0.020 | 1               | 05/10/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004455-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Ammonia as Nitrogen | 350.1           | 0.050 | ND            | ND                      | ND      | -                           |              |



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/10/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004455-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte             | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS                                | Result Notes |
|---------------------|-----------------|-------|-------------|---------------|----------------------|------------------|------------------------------------|--------------|
|                     |                 |       |             |               |                      |                  | Percent Recovery Acceptance Limits |              |
| Ammonia as Nitrogen | 350.1           | 0.050 | 2.00        | ND            | 2.06                 | 103              | 90-112                             |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS              | Result Notes |
|---------------------|-------------|-----------------|------------|--------|------------------|------------------|--------------|
|                     |             |                 |            |        |                  | Percent Recovery |              |
| Ammonia as Nitrogen | NONE        | 350.1           | 14.3       | 14.1   | 99               | 90-112           |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen  
350.1  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/10/2010     | 2.00       | 1.96           | 98               |
| CCV2 Result | 5/10/2010     | 2.00       | 1.96           | 98               |
| CCV3 Result | 5/10/2010     | 2.00       | 1.97           | 99               |
| CCV4 Result | 5/10/2010     | 2.00       | 1.97           | 99               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004467  
Date Collected : NA  
Date Received : NA

Ammonia as Nitrogen  
350.1  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/10/2010     | 0.050 | ND          |
| CCB2 Result | 5/10/2010     | 0.050 | ND          |
| CCB3 Result | 5/10/2010     | 0.050 | ND          |
| CCB4 Result | 5/10/2010     | 0.050 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Nitrite as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|--------------------|--------|--------------|
| BH-13        | K1004467-001 | 0.050 | 0.005 | 1               | 05/06/10 08:46     | ND     |              |
| Method Blank | K1004467-MB  | 0.050 | 0.005 | 1               | 05/06/10 08:46     | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 5/4/2010  
Date Received : 5/5/2010  
Date Prepared : NA  
Date Analyzed : 05/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BH-13  
Lab Code : K1004467-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Nitrite as Nitrogen | 353.2           | 0.050 | ND            | ND                      | ND      | -                           |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 5/4/2010  
Date Received : 5/5/2010  
Date Prepared : NA  
Date Analyzed : 05/06/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : BH-13  
Lab Code : K1004467-001MS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS              | Result Notes |
|---------------------|-----------------|-------|-------------|---------------|----------------------|------------------|------------------|--------------|
|                     |                 |       |             |               |                      |                  | Percent Recovery |              |
| Nitrite as Nitrogen | 353.2           | 0.050 | 2.00        | ND            | 2.00                 | 100              | 90-110           |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglur Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---------------------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Nitrite as Nitrogen | NONE        | 353.2           | 4.00       | 3.99   | 100              | 90-110                                 |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004467  
Date Collected : NA  
Date Received : NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/6/2010      | 2.00       | 1.96           | 98               |
| CCV2 Result | 5/6/2010      | 2.00       | 1.99           | 100              |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004467  
Date Collected : NA  
Date Received : NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/6/2010      | 0.050 | ND          |
| CCB2 Result | 5/6/2010      | 0.050 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Nitrate as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 0.50  | 0.09  | 10              | 04/06/10      | 9.02   |              |
| Method Blank | K1004467-MB  | 0.050 | 0.009 | 1               | 04/06/10      | 0.015  | J            |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 04/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004201-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Nitrate as Nitrogen | 353.2           | 0.050 | 0.123         | 0.126                   | 0.125   | 2                           |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 04/06/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004201-001MS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---------------------|-----------------|-------|-------------|---------------|----------------------|------------------|--|--------------|
| Nitrate as Nitrogen | 353.2           | 0.050 | 2.00        | 0.123         | 2.16                 | 102              | 88-110                                 |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglur Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 04/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS              | Result Notes |
|---------------------|-------------|-----------------|------------|--------|------------------|------------------|--------------|
|                     |             |                 |            |        |                  | Percent Recovery |              |
| Nitrate as Nitrogen | NONE        | 353.2           | 14.8       | 14.6   | 99               | 88-110           |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Nitrate as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 4/6/2010      | 2.00       | 1.84           | 92               |
| CCV2 Result | 4/6/2010      | 2.00       | 1.95           | 98               |
| CCV3 Result | 4/6/2010      | 2.00       | 1.97           | 99               |
| CCV4 Result | 4/6/2010      | 2.00       | 1.93           | 97               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Nitrate as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 4/6/2010      | 0.050 | 0.015 J     |
| CCB2 Result | 4/6/2010      | 0.050 | 0.013 J     |
| CCB3 Result | 4/6/2010      | 0.050 | 0.013 J     |
| CCB4 Result | 4/6/2010      | 0.050 | 0.011 J     |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Orthophosphate as Phosphorus

Analysis Method : 365.3  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|--------------------|--------|--------------|
| BH-13        | K1004467-001 | 0.010 | 0.004 | 1               | 05/05/10 15:00     | 0.029  |              |
| Method Blank | K1004467-MB  | 0.010 | 0.004 | 1               | 05/05/10 15:00     | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 5/4/2010  
Date Received : 5/5/2010  
Date Prepared : NA  
Date Analyzed : 05/05/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BH-13  
Lab Code : K1004467-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                      | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|------------------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Orthophosphate as Phosphorus | 365.3           | 0.010 | 0.029         | 0.029                   | 0.029   | <1                          |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 5/4/2010  
Date Received : 5/5/2010  
Date Prepared : NA  
Date Analyzed : 05/05/10

Matrix Spike Summary  
Inorganic Parameters

Sample Name : BH-13  
Lab Code : K1004467-001MS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                      | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|------------------------------|-----------------|-------|-------------|---------------|----------------------|------------------|--|--------------|
| Orthophosphate as Phosphorus | 365.3           | 0.010 | 0.200       | 0.029         | 0.217                | 94               | 81-119                                 |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/05/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                      | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|------------------------------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Orthophosphate as Phosphorus | NONE        | 365.3           | 3.57       | 3.41   | 96               | 89-118                                 |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004467  
Date Collected : NA  
Date Received : NA

Orthophosphate as Phosphorus  
365.3  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/5/2010      | 0.500      | 0.480          | 96               |
| CCV2 Result | 5/5/2010      | 0.500      | 0.478          | 96               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA

Orthophosphate as Phosphorus

365.3

Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/5/2010      | 0.010 | ND          |
| CCB2 Result | 5/5/2010      | 0.010 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Alkalinity as CaCO<sub>3</sub>, Total

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 2.0 | 1.0 | 1               | 05/10/10      | 173    |              |
| Method Blank | K1004467-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004481-005DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                                 | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Alkalinity as CaCO <sub>3</sub> , Total | SM 2320 B       | 2.0 | 184           | 182                     | 183     | 1                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglur Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                                 | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---|-------------|-----------------|------------|--------|------------------|--|--------------|
| Alkalinity as CaCO <sub>3</sub> , Total | NONE        | SM 2320 B       | 67.9       | 70.4   | 104              | 94-106                                 |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Bicarbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 2.0 | 1.0 | 1               | 05/10/10      | 173    |              |
| Method Blank | K1004467-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                         | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Bicarbonate Alkalinity as CaCO3 | SM 2320 B       | 2.0 | 216           | 218                     | 217     | <1                          |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Carbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004467-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                       | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|-------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Carbonate Alkalinity as CaCO3 | SM 2320 B       | 2.0 | ND            | ND                      | ND      | -                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Hydroxide Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L

Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004467-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                       | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|-------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Hydroxide Alkalinity as CaCO3 | SM 2320 B       | 2.0 | ND            | ND                      | ND      | -                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

Solids, Total Dissolved

Analysis Method : SM 2540 C  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-13        | K1004467-001 | 5.0 | 5.0 | 1               | 05/11/10      | 327    |              |
| Method Blank | K1004467-MB  | 5.0 | 5.0 | 1               | 05/11/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 5/4/2010  
Date Received : 5/5/2010  
Date Prepared : NA  
Date Analyzed : 05/11/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BH-13  
Lab Code : K1004467-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                 | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|-------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Solids, Total Dissolved | SM 2540 C       | 5.0 | 327           | 326                     | 327     | <1                          |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004467  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/11/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004467-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                 | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|-------------------------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|                         |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Solids, Total Dissolved | NONE        | SM 2540 C       | 750        | 742    | 99               | 83-117                             |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : 05/04/10  
Date Received : 05/05/10

pH

Analysis Method : SM 4500-H+ B  
Test Notes :

Units : pH Units

Basis : NA

| Sample Name | Lab Code     | MRL | MDL | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|-------------|--------------|-----|-----|-----------------|--------------------|--------|--------------|
| BH-13       | K1004467-001 | -   | -   | 1               | 05/06/10 15:04     | 7.46   |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/06/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004548-003DUP  
Test Notes :

Units : pH Units  
Basis : NA

| Analyte | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| pH      | SM 4500-H+ B    | -   | 7.88          | 7.84                    | 7.86    | <1                          |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004467  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/06/10

Laboratory Control Sample Summary  
Inorganic Parameters

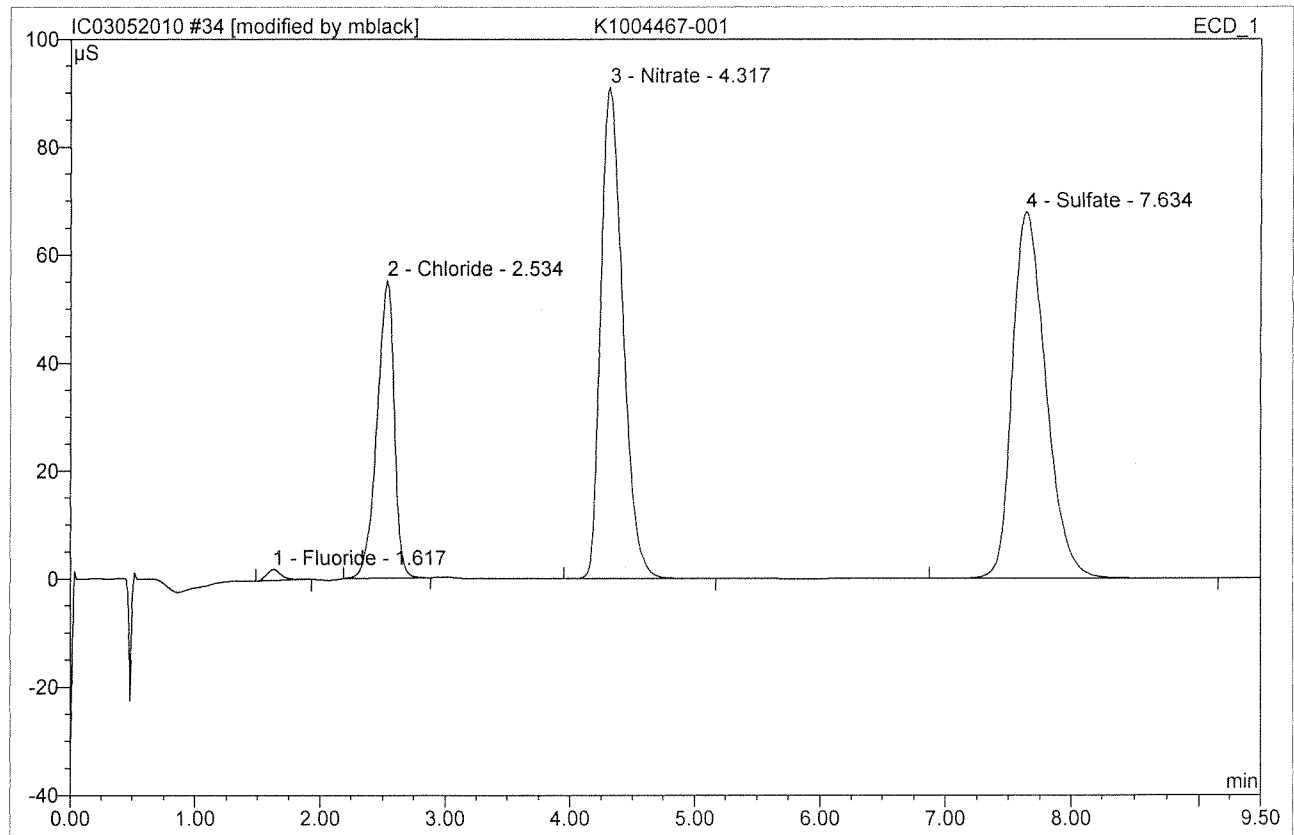
Sample Name : Lab Control Sample  
Lab Code : K1004467-LCS  
Test Notes :

Units : pH Units  
Basis : NA

| Analyte | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS              | Result Notes |
|---------|-------------|-----------------|------------|--------|------------------|------------------|--------------|
|         |             |                 |            |        |                  | Percent Recovery |              |
| pH      | NONE        | SM 4500-H+ B    | 6.46       | 6.42   | 99               | 85-115           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>34 K1004467-001</b> |                 |                   |        |
| Sample Name:           | K1004467-001    | Injection Volume: | 200.0  |
| Vial Number:           | 31              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:50 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |

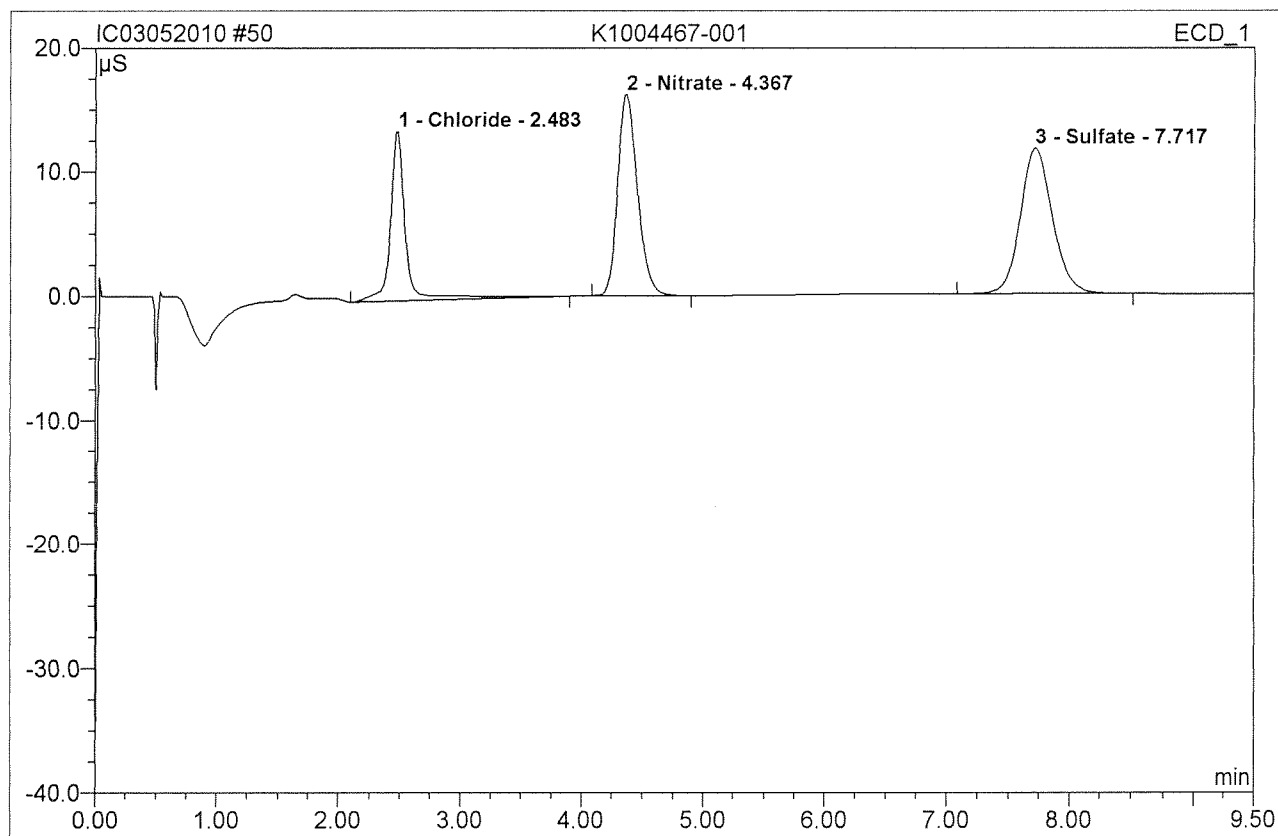


| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|--------|------|
| 1             | 1.62            | Fluoride  | 2.037                   | 0.283                                | 0.58          | 0.296  | BMB* |
| 2             | 2.53            | Chloride  | 55.130                  | 8.931                                | 18.23         | 11.453 | BMB* |
| 3             | 4.32            | Nitrate   | 91.059                  | 18.658                               | 38.08         | 10.129 | BMB  |
| 4             | 7.63            | Sulfate   | 68.006                  | 21.119                               | 43.11         | 42.922 | BMB  |
| <b>Total:</b> |                 |           | 216.232                 | 48.991                               | 100.00        | 64.800 |      |

Nitrate *LB*

*5/25/10*

|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>50 K1004467-001</b> |                 |                   |         |
| Sample Name:           | K1004467-001    | Injection Volume: | 200.0   |
| Vial Number:           | 47              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 10.0000 |
| Recording Time:        | 5/20/2010 18:01 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |

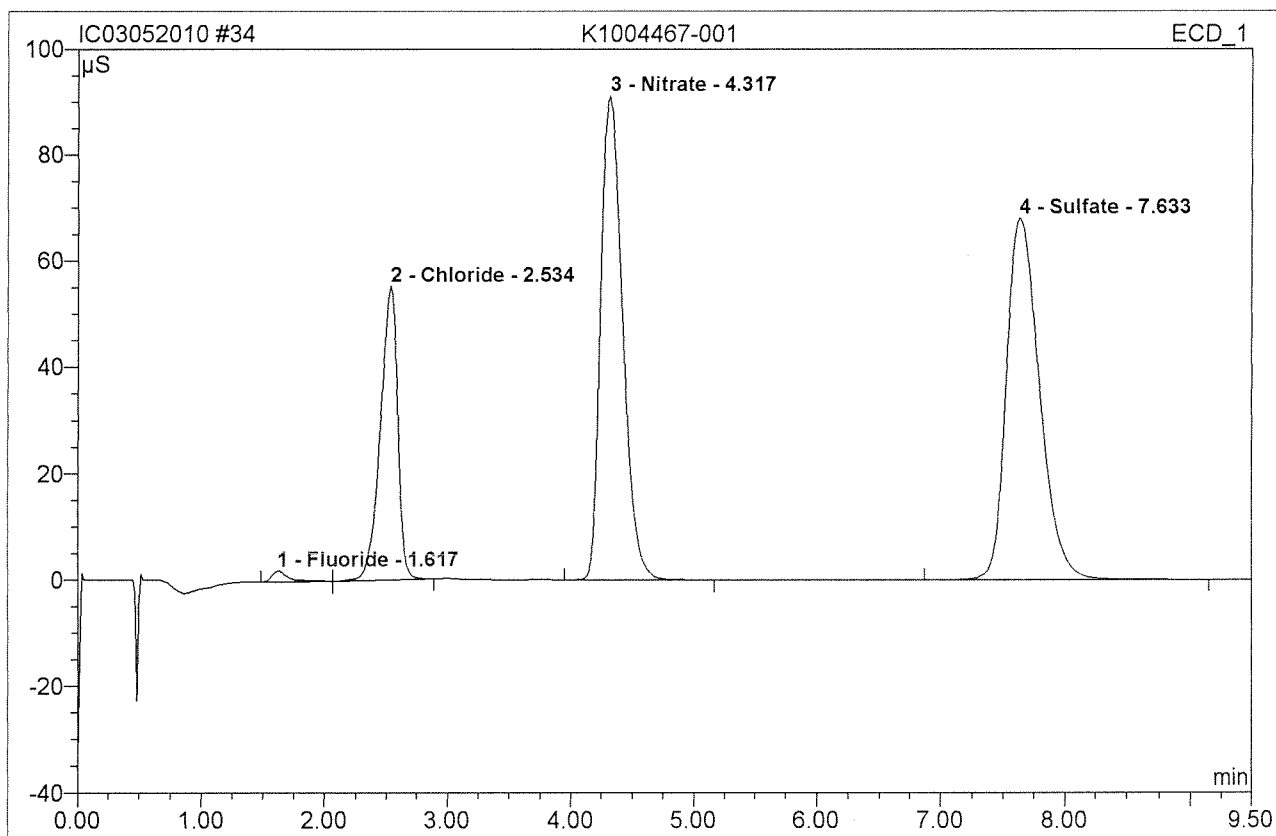


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.48             | Chloride  | 13.639       | 2.018          | 23.38          | 12.941 | BMB  |
| 2             | 4.37             | Nitrate   | 16.198       | 3.049          | 35.32          | 8.277  | BMB  |
| 3             | 7.72             | Sulfate   | 11.717       | 3.565          | 41.30          | 36.226 | BMB  |
| <b>Total:</b> |                  |           | 41.555       | 8.632          | 100.00         | 57.444 |      |



**34 K1004467-001**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004467-001    | Injection Volume: | 200.0  |
| Vial Number:     | 31              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 14:50 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

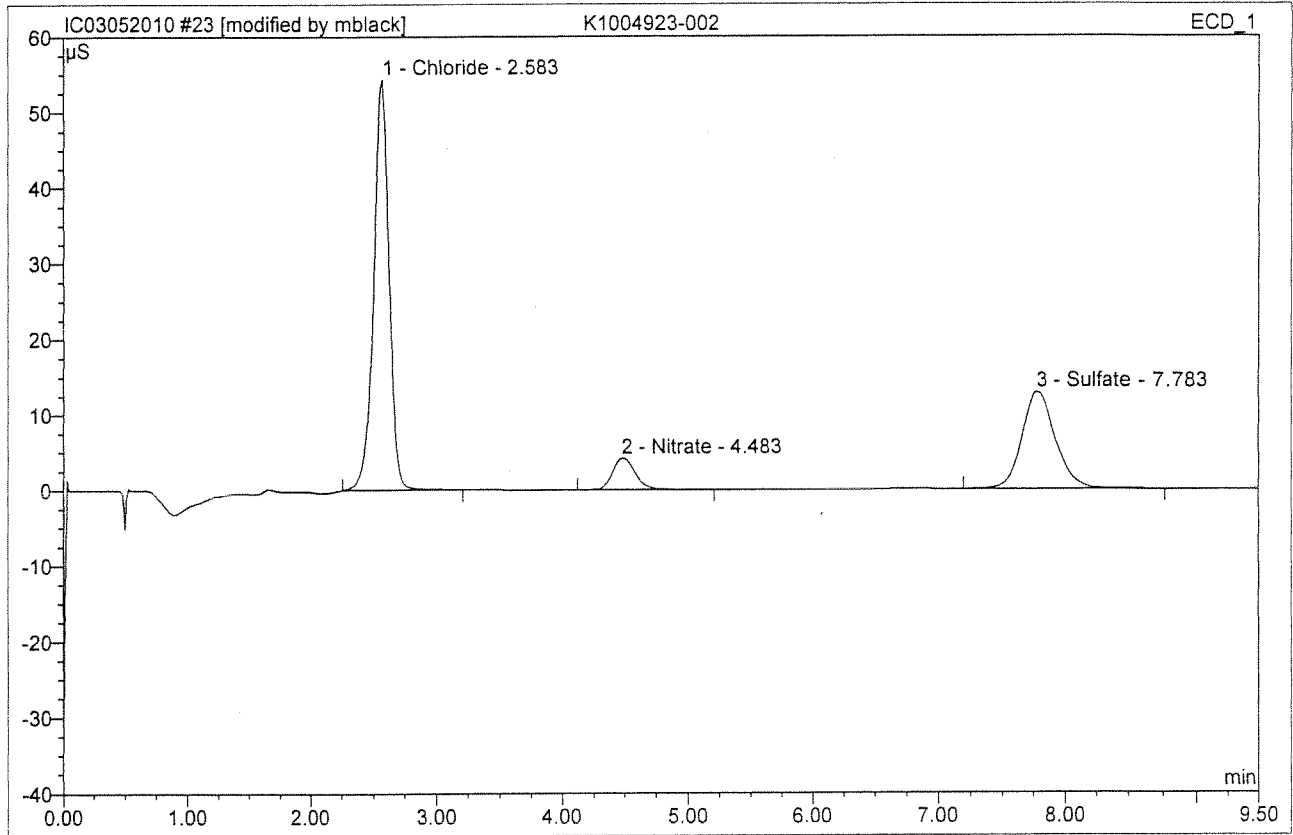


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.62             | Fluoride  | 2.099        | 0.343          | 0.70           | 0.359  | BMB  |
| 2             | 2.53             | Chloride  | 55.235       | 9.013          | 18.34          | 11.559 | bMB  |
| 3             | 4.32             | Nitrate   | 91.059       | 18.658         | 37.97          | 10.129 | BMB  |
| 4             | 7.63             | Sulfate   | 68.006       | 21.119         | 42.98          | 42.922 | BMB  |
| <b>Total:</b> |                  |           | 216.398      | 49.133         | 100.00         | 64.969 |      |

Before

MAY 20 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>23 K1004923-002</b> |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 21              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 12:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name                        | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|----------------------------------|--------------|----------------|---------------|--------|------|
| 1             | 2.58            | Chloride $\bar{x}=9.80$ RPD= 21% | 54.379       | 7.667          | 61.56         | 9.832  | BMB* |
| 2             | 4.48            | Nitrate                          | 4.197        | 0.867          | 6.96          | 0.471  | BMB* |
| 3             | 7.78            | Sulfate $\bar{x}=7.91$ RPD= 29%  | 12.889       | 3.919          | 31.47         | 7.966  | BMB  |
| <b>Total:</b> |                 |                                  | 71.464       | 12.453         | 100.00        | 18.269 |      |

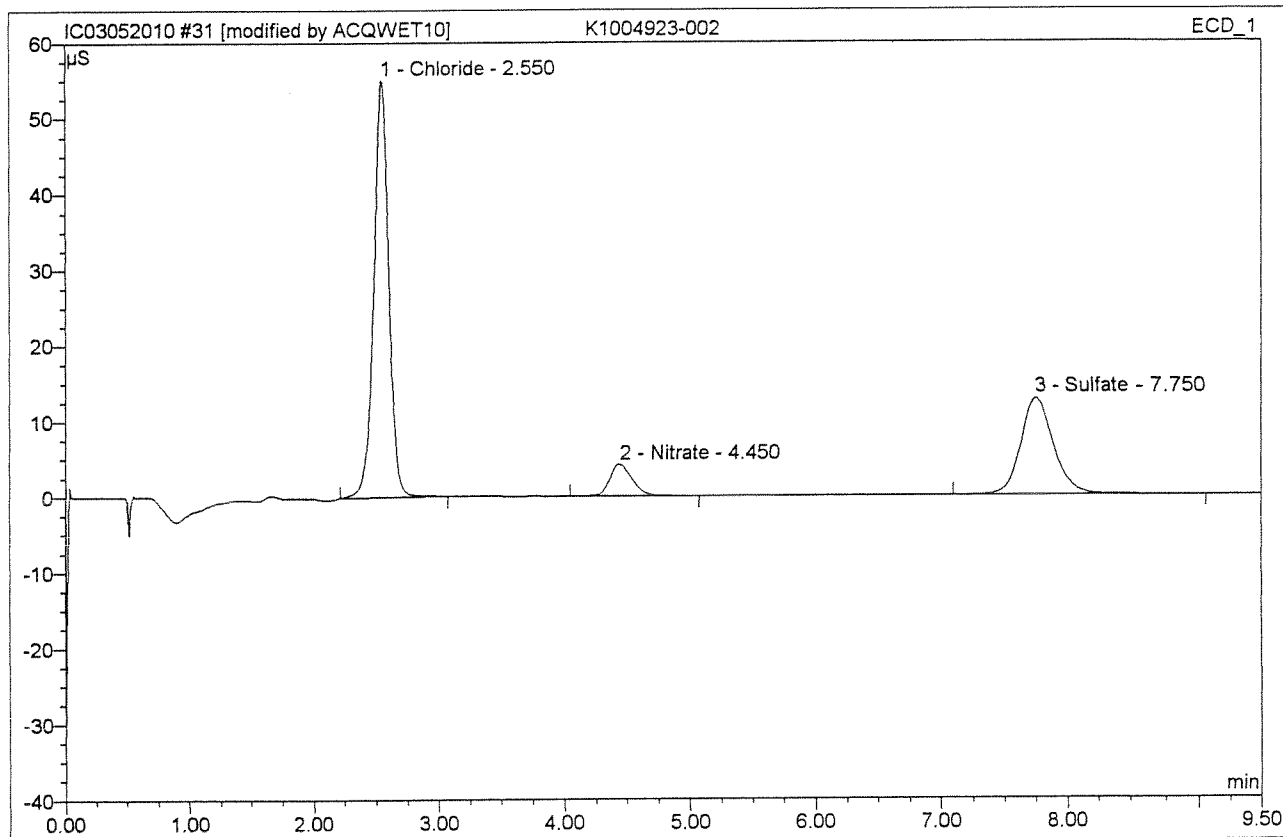
MB  
MAY 23 2010

5/25/10

**31 K1004923-002**

**4923-2D**

|                  |                        |                   |               |
|------------------|------------------------|-------------------|---------------|
| Sample Name:     | <b>K1004923-002</b>    | Injection Volume: | <b>200.0</b>  |
| Vial Number:     | <b>28</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:     | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program: | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method: | <b>epa300</b>          | Dilution Factor:  | <b>2.0000</b> |
| Recording Time:  | <b>5/20/2010 14:14</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):  | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.55            | Chloride  | 55.040       | 7.612          | 61.72         | 9.762  | BMB* |
| 2             | 4.45            | Nitrate   | 4.215        | 0.857          | 6.95          | 0.465  | BMB* |
| 3             | 7.75            | Sulfate   | 12.806       | 3.864          | 31.33         | 7.852  | BMB  |
| <b>Total:</b> |                 |           | 72.061       | 12.332         | 100.00        | 18.079 |      |

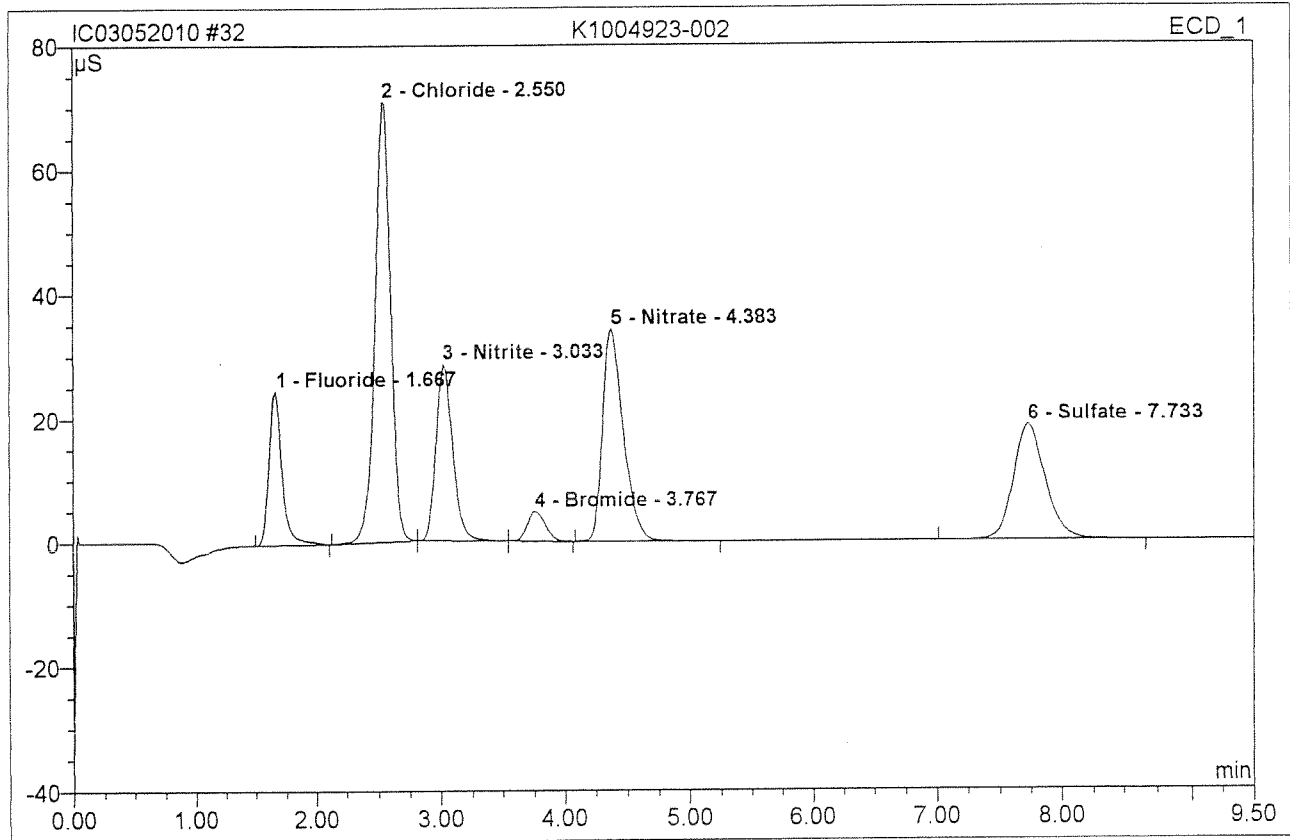
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May 20 2010

*Handwritten date: 5/25/10*



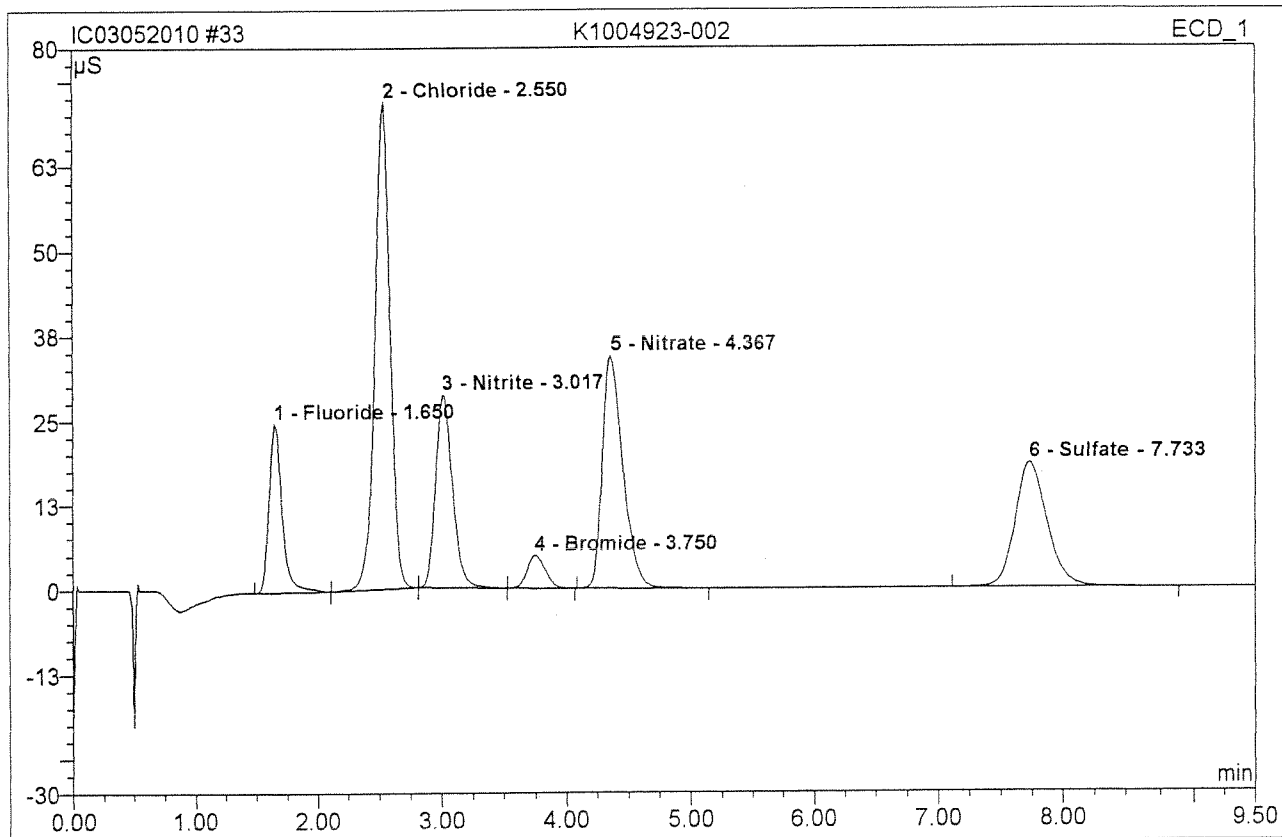
|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>32 K1004923-002</b> |                 |                   |        |
| <b>4923-2MS</b>        |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 29              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:26 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount             | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------------------|------|
| 1             | 1.67             | Fluoride  | 24.899       | 3.092          | 10.05          | 3.232 <i>105%</i>  | BMB  |
| 2             | 2.55             | Chloride  | 70.832       | 10.158         | 33.02          | 13.027 <i>166%</i> | BMB  |
| 3             | 3.03             | Nitrite   | 28.406       | 4.477          | 14.55          | 3.101 <i>103%</i>  | bMB  |
| 4             | 3.77             | Bromide   | 4.834        | 0.811          | 2.64           | 3.027 <i>104%</i>  | bMB  |
| 5             | 4.38             | Nitrate   | 34.168       | 6.671          | 21.68          | 3.622 <i>152%</i>  | BMB  |
| 6             | 7.73             | Sulfate   | 18.657       | 5.557          | 18.06          | 11.295 <i>111%</i> | BMB  |
| <b>Total:</b> |                  |           | 181.796      | 30.767         | 100.00         | 37.304             |      |

*TV=3.00*

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>33 K1004923-002</b> |                 |                   |        |
| <b>4923-2MSD</b>       |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 30              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |

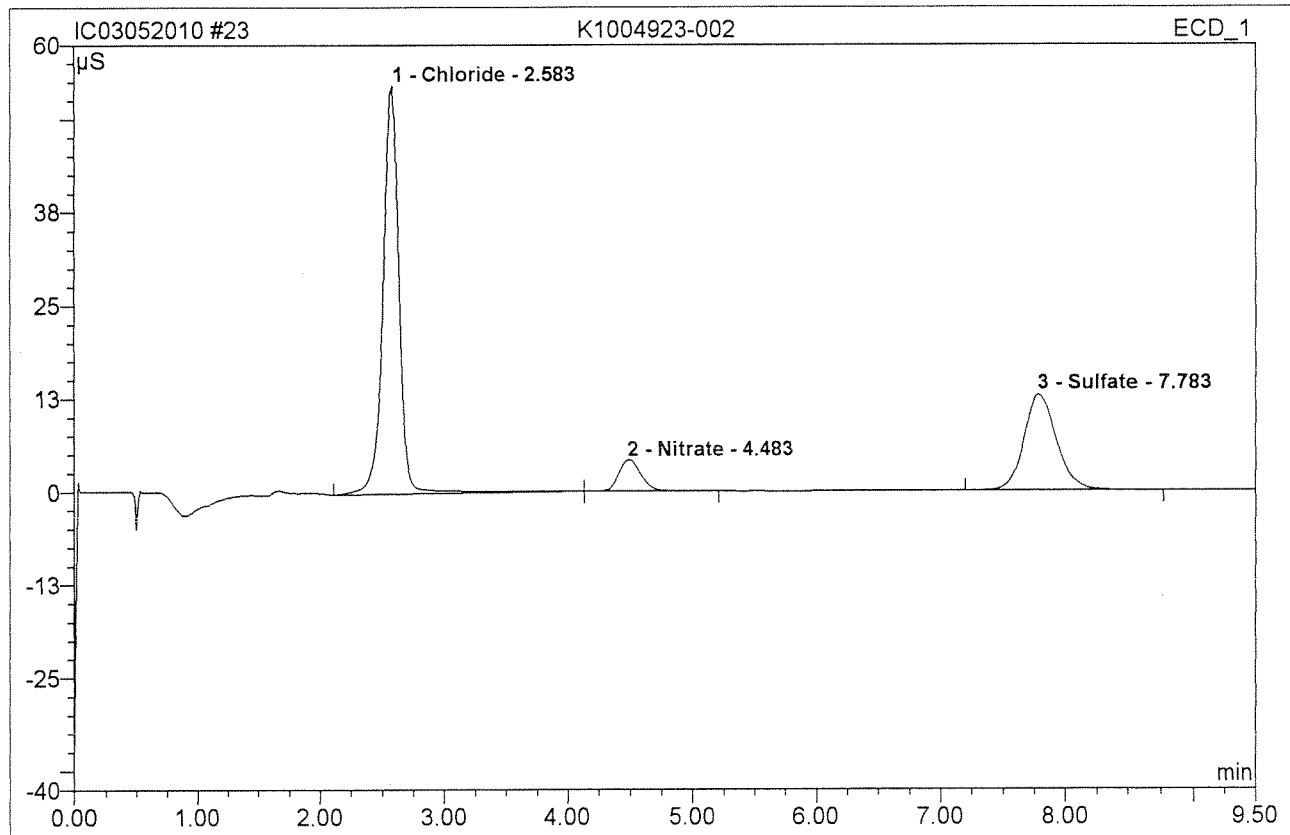


| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount     | Type |
|---------------|--------------|-----------|-----------|-------------|------------|------------|------|
| 1             | 1.65         | Fluoride  | 25.042    | 3.091       | 10.08      | 3.231108%  | BMB  |
| 2             | 2.55         | Chloride  | 71.836    | 10.112      | 32.96      | 12.968106% | bMB  |
| 3             | 3.02         | Nitrite   | 28.491    | 4.492       | 14.64      | 3.111104%  | bMB  |
| 4             | 3.75         | Bromide   | 4.858     | 0.815       | 2.66       | 3.041101%  | bMB  |
| 5             | 4.37         | Nitrate   | 34.413    | 6.676       | 21.76      | 3.625105%  | BMB  |
| 6             | 7.73         | Sulfate   | 18.444    | 5.491       | 17.90      | 11.159108% | BMB  |
| <b>Total:</b> |              |           | 183.084   | 30.677      | 100.00     | 37.135     |      |

TV=3.02

**23 K1004923-002**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:     | 21              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 12:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 2.58             | Chloride  | 54.735                  | 8.108                                | 62.88          | 10.398 | BMB  |
| 2             | 4.48             | Nitrate   | 4.197                   | 0.867                                | 6.73           | 0.471  | bMB  |
| 3             | 7.78             | Sulfate   | 12.889                  | 3.919                                | 30.40          | 7.966  | BMB  |
| <b>Total:</b> |                  |           | 71.820                  | 12.895                               | 100.00         | 18.834 |      |

Before

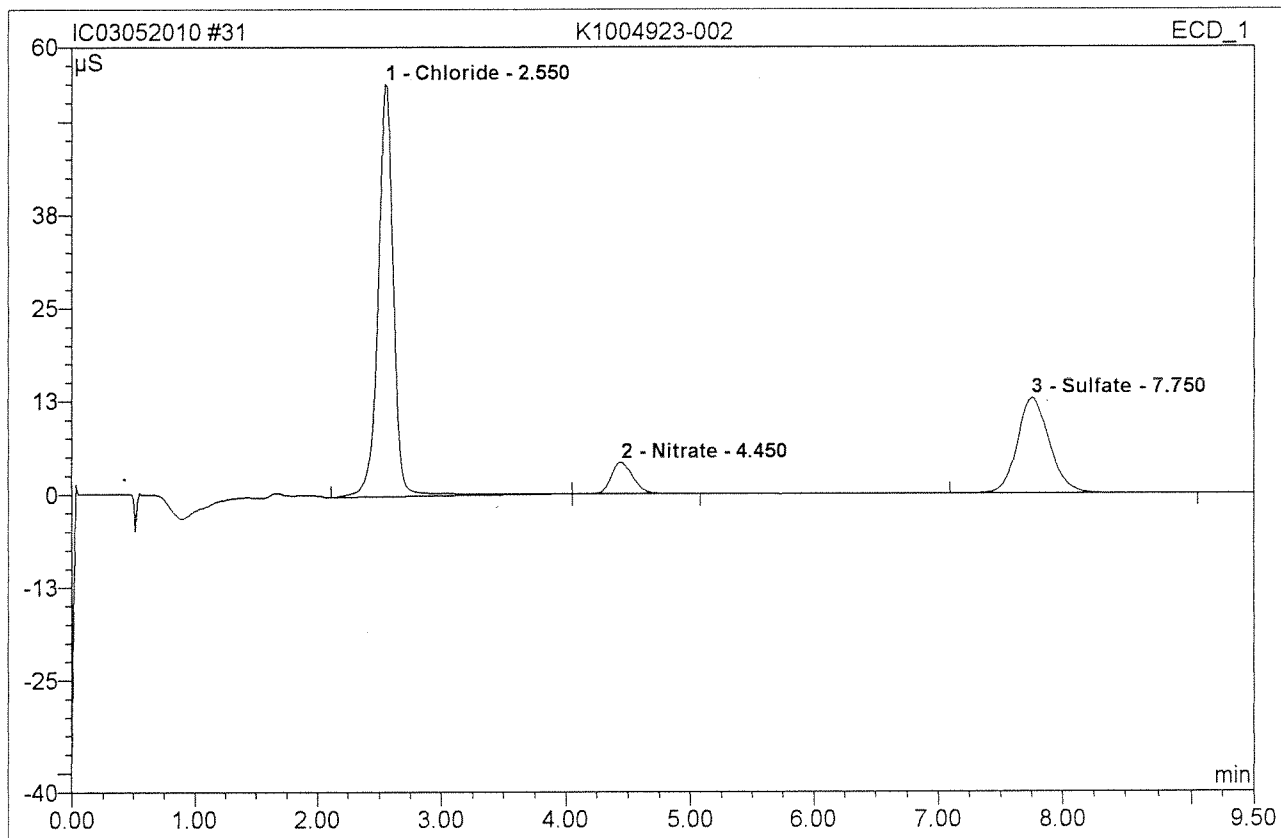
MAY 20 2010



### 31 K1004923-002

#### 4923-2D

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:     | 28              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 14:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.55            | Chloride  | 55.323       | 8.004          | 62.91         | 10.265 | BMB  |
| 2             | 4.45            | Nitrate   | 4.215        | 0.857          | 6.73          | 0.465  | bMB  |
| 3             | 7.75            | Sulfate   | 12.806       | 3.864          | 30.36         | 7.852  | BMB  |
| <b>Total:</b> |                 |           | 72.344       | 12.724         | 100.00        | 18.582 |      |

Report

MAY 20 2010

- 1. Holding times met for all samples analyzed? yes  no  NA  \*
- 2. Are dilutions within upper limits of the curve? yes  no  NA
- 3. Are analysis/extraction stickers included on report? yes  no  NA
- 4. Are detection limits reported correctly? yes  no  NA
- 5. Are all quality control criteria met? yes  no  NA 
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes  no  NA
  - b. Are CCV's and CCB's all within acceptance limits? yes  no  NA
  - c. Are results for Method Blanks all ND? yes  no  NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes  no  NA
  - e. Are all exceptions explained? yes  no  NA
- 6. Are all samples labelled correctly? yes  no  NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis. *K5150, K5161 received past hdd for NO3*

|          |                       |                                  |                          |
|----------|-----------------------|----------------------------------|--------------------------|
| LCS      |                       |                                  |                          |
| Fluoride | True Value = 13.5 ppm | CAS ID # = <u>AN1-33-D</u>       | Expires: <u>7/17/10</u>  |
| Chloride | True Value = 5.0ppm   | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/1/10</u>   |
| Nitrite  | True Value = 100 ppm  | CAS ID # = <u>MS11-27-CC</u>     | Expires: <u>5/20/10</u>  |
| Bromide  | True Value = 4.0 ppm  | CAS ID # = <u>AN1-33-L</u>       | Expires: <u>10/25/10</u> |
| Nitrate  | True Value = 21.0 ppm | CAS ID # = <u>AN1-33-E</u>       | Expires: <u>7/21/10</u>  |
| Sulfate  | True Value = 5.0 ppm  | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/1/10</u>   |

|          |                             |                                 |                          |
|----------|-----------------------------|---------------------------------|--------------------------|
| CCV      | CAS ID # = <u>AN11-20-H</u> | Expires <u>5/20/10</u>          |                          |
| Fluoride | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: <u>10/25/10</u> |
| Chloride | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: <u>8/5/10</u>   |
| Nitrite  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: <u>10/25/10</u> |
| Bromide  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: <u>6/21/10</u>  |
| Nitrate  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: <u>9/9/10</u>   |
| Sulfate  | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: <u>8/5/10</u>   |

|                          |                                 |                        |                   |
|--------------------------|---------------------------------|------------------------|-------------------|
| Spike                    |                                 |                        |                   |
| 1.5ppm X dilution factor | CAS ID # = <u>AN11-10-M</u>     | Expires <u>5/20/10</u> |                   |
| Fluoride                 | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: _____         | } see 10K CCV IDs |
| Chloride                 | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: _____         |                   |
| Nitrite                  | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: _____         |                   |
| Bromide                  | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: _____         |                   |
| Nitrate                  | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: _____         |                   |
| Sulfate                  | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: _____         |                   |

Analyst: LB Date: 5/20/10

First Review: LB Date: 5/20/10

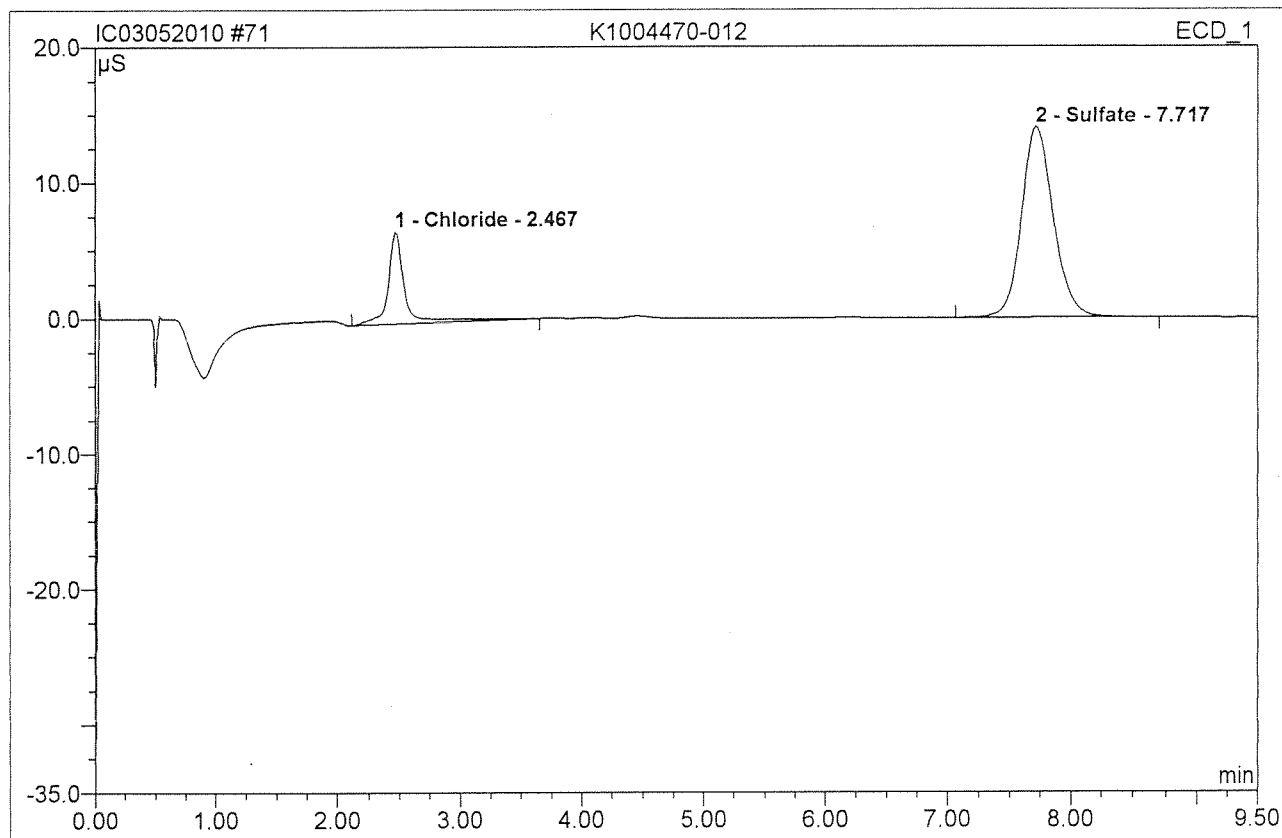
Final Review: JL Date: 5/25/10

t:\wet\ic\cdqs.xls

| Service Request | Tier | QC | Hold Time | Due Date | Anion                              | Initial | Final | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|------------------------------------|---------|-------|-------------|-------|
| K 5105-1        | I    |    | 5/21      | 6/5      | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |       |             | ✓     |
| P.P.            |      |    |           |          |                                    |         |       |             | ✓     |
| K 4536-1 Ext    |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |       | 0.25/5      | ✓     |
| K 5149-2        | II   |    | 5/20 1200 | 5/31     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |       |             | ✓     |
| Coeur Alaska    |      |    |           |          |                                    |         |       | 0.25/5      | ✓     |
| K 4923-1        | III  |    |           | 5/25     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |       |             | ✓     |
| URS<br>MPL      |      |    |           |          |                                    |         |       |             | ✓     |
| -2              |      | X  |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |       |             | ✓     |
| -3              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |       | 1/5         | ✓     |
| -8              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |       | 1/5         | ✓     |
| K 4967-1        | I    |    |           | 5/28     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |       |             | ✓     |
| NorthStar       |      |    |           |          |                                    |         |       | 0.1/5       | ✓     |
| K 4711-1        | II   |    |           | 5/28     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |       |             | ✓     |
| City of Port.   |      |    |           |          |                                    |         |       |             | ✓     |
| K 4467-1        | III  |    |           | 5/27     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |       |             | ✓     |
| Exponent        |      |    |           |          |                                    |         |       | 0.5/5       | ✓     |

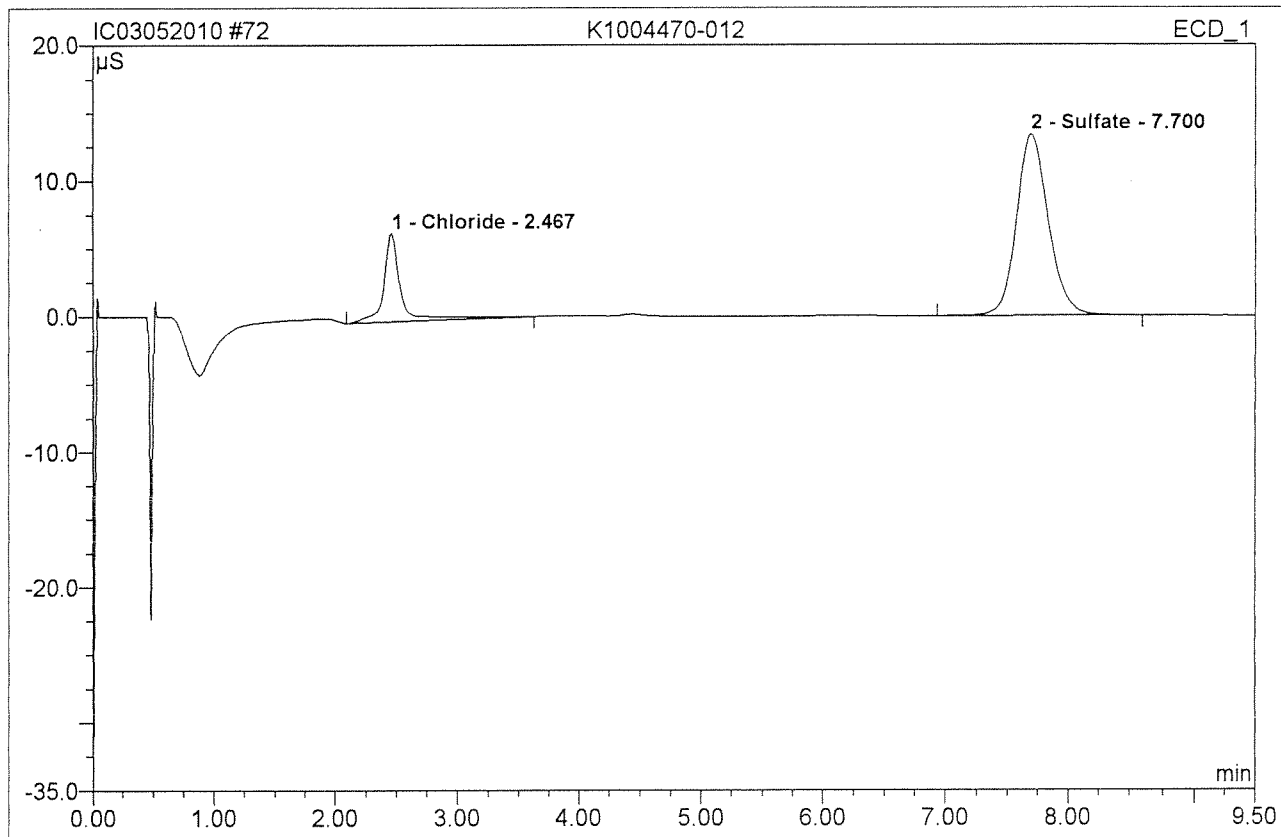


|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>71 K1004470-012</b> |                 |                   |         |
| Sample Name:           | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:           | 68              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/20/2010 22:12 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |



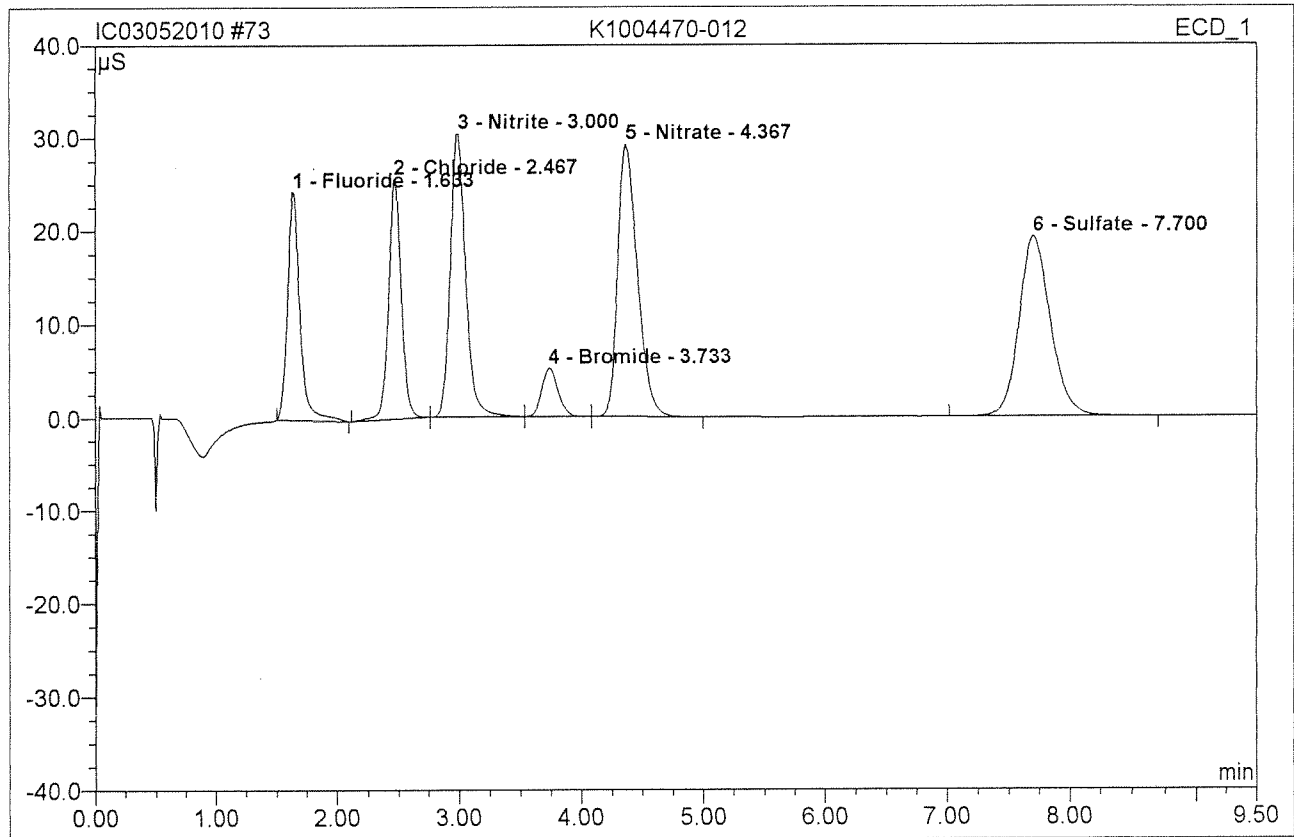
| No.           | Ret. Time<br>min | Peak Name                   | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------------------------|--------------|----------------|----------------|---------|------|
| 1             | 2.47             | Chloride                    | 6.791        | 1.108          | 20.72          | 35.508  | BMB  |
| 2             | 7.72             | Sulfate <i>x=211 RD=480</i> | 14.028       | 4.237          | 79.28          | 215.298 | BMB  |
| <b>Total:</b> |                  |                             | 20.819       | 5.345          | 100.00         | 250.806 |      |

|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>72 K1004470-012</b> |                 |                   |         |
| <b>4470-12D</b>        |                 |                   |         |
| Sample Name:           | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:           | 69              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/20/2010 22:24 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.47             | Chloride  | 6.534        | 1.081          | 21.07          | 34.658  | BMB  |
| 2             | 7.70             | Sulfate   | 13.376       | 4.050          | 78.93          | 205.782 | BMB  |
| <b>Total:</b> |                  |           | 19.910       | 5.131          | 100.00         | 240.439 |      |

|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>73 K1004470-012</b> |                 |                   |         |
| <b>4470-12MS</b>       |                 |                   |         |
| Sample Name:           | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:           | 70              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/20/2010 22:36 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |

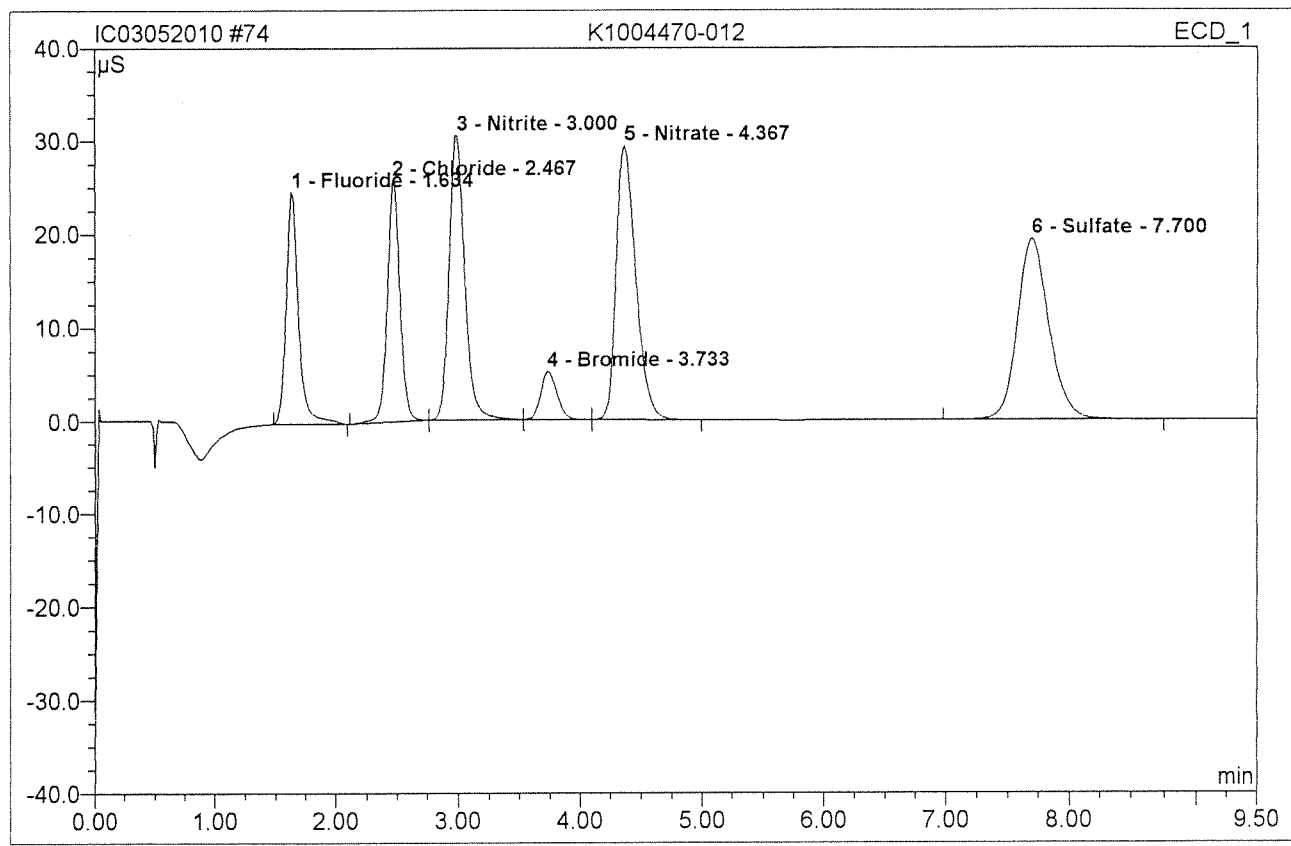


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount              | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------------------|------|
| 1             | 1.63            | Fluoride  | 24.443       | 2.927          | 13.01         | 76.481              | BMB  |
| 2             | 2.47            | Chloride  | 25.724       | 3.085          | 13.71         | 98.915              | BMB  |
| 3             | 3.00            | Nitrite   | 30.362       | 4.440          | 19.73         | 76.895              | bMb  |
| 4             | 3.73            | Bromide   | 5.112        | 0.807          | 3.59          | 75.297              | bMb  |
| 5             | 4.37            | Nitrate   | 29.199       | 5.451          | 24.22         | 73.984              | bMB  |
| 6             | 7.70            | Sulfate   | 19.274       | 5.794          | 25.74         | 294.369 <i>105%</i> | BMB  |
| <b>Total:</b> |                 |           | 134.114      | 22.504         | 100.00        | 695.941             |      |

*TV:TS*



|                        |                        |                   |                |
|------------------------|------------------------|-------------------|----------------|
| <b>74 K1004470-012</b> |                        |                   |                |
| <b>4470-12MSD</b>      |                        |                   |                |
| Sample Name:           | <b>K1004470-012</b>    | Injection Volume: | <b>200.0</b>   |
| Vial Number:           | <b>71</b>              | Channel:          | <b>ECD_1</b>   |
| Sample Type:           | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>    |
| Control Program:       | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>    |
| Quantif. Method:       | <b>epa300</b>          | Dilution Factor:  | <b>50.0000</b> |
| Recording Time:        | <b>5/20/2010 22:48</b> | Sample Weight:    | <b>1.0000</b>  |
| Run Time (min):        | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b>  |



| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount                  | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-------------------------|------|
| 1             | 1.63         | Fluoride  | 24.837    | 2.978       | 13.13      | 77.814                  | BMB  |
| 2             | 2.47         | Chloride  | 25.899    | 3.112       | 13.72      | 99.776                  | BMb  |
| 3             | 3.00         | Nitrite   | 30.505    | 4.491       | 19.81      | 77.779                  | bMb  |
| 4             | 3.73         | Bromide   | 5.158     | 0.807       | 3.56       | 75.334                  | bMb  |
| 5             | 4.37         | Nitrate   | 29.393    | 5.458       | 24.07      | 74.077                  | bMB  |
| 6             | 7.70         | Sulfate   | 19.378    | 5.830       | 25.71      | 296.209 <sup>108%</sup> | BMB  |
| <b>Total:</b> |              |           | 135.170   | 22.676      | 100.00     | 700.988                 |      |

TN=75.0

| Service Request | Tier | QC | Hold Time  | Due Date | Anion | Initial | Final | QC DILUTION | Done? |
|-----------------|------|----|------------|----------|-------|---------|-------|-------------|-------|
| K 4680 - 1      | I    |    |            | 5/28     | (F)   | 2.5/5   |       |             | ✓     |
| RJ Lee Group    |      |    |            |          | CL    | }       |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | (F)   |         |       |             | ✓     |
| -2              |      |    |            |          | CL    | }       |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | (F)   |         |       |             | ✓     |
| -3              |      |    |            |          | CL    | }       |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | (F)   |         |       |             | ✓     |
| -4              |      |    |            |          | CL    | }       |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | (F)   |         |       |             | ✓     |
| -5              |      |    |            |          | CL    | }       |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
| K 5150 - 1      | II   |    | Rec'd Part | 5/31     | F     |         |       |             | ✓     |
| Coeur Alaska    |      |    |            |          | CL    | 1/5     |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   | 1/5     |       | ✓           |       |
|                 |      |    |            |          | SO4   | 0.5/100 |       |             | ✓     |
| K 5161 - 1      | II   |    | Rec'd Part | 5/31     | F     |         |       |             | ✓     |
| Coeur Alaska    |      |    |            |          | CL    | 2.5/5   |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             | ✓     |
|                 |      |    |            |          | (F)   |         |       |             | ✓     |
| -2              |      |    |            |          | CL    | 2.5/5   |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             | ✓     |
| K 4575 - 1      | III  |    |            | 5/29     | (F)   | 2.5/5   |       |             | ✓     |
| Exponent        |      |    |            |          | CL    | }       |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         | 1/5   |             | ✓     |
|                 |      |    |            |          | (F)   | 2.5/5   |       |             | ✓     |
| -2              |      |    |            |          | CL    | }       |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             | 88    |











































| Service Request | Tier | QC | Hold Time | Due Date | Anion                              | Initial | Final  | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|------------------------------------|---------|--------|-------------|-------|
| K4575-3         | III  |    |           | 5/29     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             |       |
| -4              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 5/5     |        |             |       |
| K5160-1         | I    |    |           | 4/20     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |
| P.P             |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |
| K4470-1         | II   |    |           | 5/29     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.5/5   |        |             | ✓     |
| Bar?            |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.5/5   |        |             | ✓     |
| -2              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 5/5     |        |             | ✓     |
| -3              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.5/5   |        |             | ✓     |
| -4              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   | 0.25/5 |             |       |
| -5              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.1/5   |        |             | ✓     |
| -6              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.25/5  |        |             | ✓     |
| -7              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |



| Service Request | Tier | QC | Hold Time | Due Date | Anion              | Initial           | Final            | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|--------------------|-------------------|------------------|-------------|-------|
| 4470-8          |      |    |           |          | F<br><del>CL</del> | 200x              | <del>0.5/5</del> |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 200x              | 0.5/5            |             |       |
| -9              |      |    |           |          | F<br><del>CL</del> | <del>0.25/5</del> |                  |             | ✓     |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 0.25/5            |                  |             | ✓     |
| -10             |      |    |           |          | F<br><del>CL</del> | <del>0.25/5</del> | 2.5/5            |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 0.25/5            |                  |             | ✓     |
| -11             |      |    |           |          | F<br><del>CL</del> | <del>2.5/5</del>  | 1/5              |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 2.5/5             |                  |             | ✓     |
| -12             |      |    |           |          | F<br>CL            |                   |                  |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 0.1/5             |                  |             | ✓     |
| -13             |      |    |           |          | F<br>CL            |                   |                  |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 200x              |                  |             | ✓     |
| -14             |      |    |           |          | F<br>CL            |                   |                  |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | <del>SO4</del>     | 0.1/5             |                  |             | ✓     |
|                 |      |    |           |          | F<br>CL            |                   |                  |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | SO4                |                   |                  |             |       |
|                 |      |    |           |          | F<br>CL            |                   |                  |             |       |
|                 |      |    |           |          | NO2                |                   |                  |             |       |
|                 |      |    |           |          | Br                 |                   |                  |             |       |
|                 |      |    |           |          | NO3                |                   |                  |             |       |
|                 |      |    |           |          | SO4                |                   |                  |             |       |

Sequence: IC03052010  
Operator: mblack

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83  
Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name  | Type     | Pos. | Inj. Vol. | Program | Method | Status   |
|-----|---|----------|------|-----------|---------|--------|----------|
| 1   |  std2/IV2              | Standard | 1    | 200.0     | epa300  | epa300 | Finished |
| 2   |  std3/IV3              | Standard | 2    | 200.0     | epa300  | epa300 | Finished |
| 3   |  std4/IV4              | Standard | 3    | 200.0     | epa300  | epa300 | Finished |
| 4   |  std5/IV5              | Standard | 4    | 200.0     | epa300  | epa300 | Finished |
| 5   |  std6/IV6              | Standard | 5    | 200.0     | epa300  | epa300 | Finished |
| 6   |  std7/IV7              | Standard | 6    | 200.0     | epa300  | epa300 | Finished |
| 7   |  std1/IV1              | Standard | 7    | 200.0     | epa300  | epa300 | Finished |
| 8   |  CCV AN11-20-H         | Unknown  | 8    | 200.0     | epa300  | epa300 | Finished |
| 9   |  CCB                   | Unknown  | 9    | 200.0     | epa300  | epa300 | Finished |
| 10  |  NO2 AN11-27-CC        | Unknown  | 10   | 200.0     | epa300  | epa300 | Finished |
| 11  |  MB                    | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished |
| 12  |  NO3 AN1-33-E          | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished |
| 13  |  CLSO4 ERA #0107-10-02 | Unknown  | 12   | 200.0     | epa300  | epa300 | Finished |
| 14  |  F AN1-33-D            | Unknown  | 13   | 200.0     | epa300  | epa300 | Finished |
| 15  |  Br AN1-33-L           | Unknown  | 14   | 200.0     | epa300  | epa300 | Finished |
| 16  |  SPK AN11-10-M        | Unknown  | 15   | 200.0     | epa300  | epa300 | Finished |
| 17  |  CCV2                | Unknown  | 15   | 200.0     | epa300  | epa300 | Finished |
| 18  |  CCB2                | Unknown  | 16   | 200.0     | epa300  | epa300 | Finished |
| 19  |  K1005105-001        | Unknown  | 17   | 200.0     | epa300  | epa300 | Finished |
| 20  |  K1005149-002        | Unknown  | 18   | 200.0     | epa300  | epa300 | Finished |
| 21  |  K4536-1 BEXT        | Unknown  | 19   | 200.0     | epa300  | epa300 | Finished |
| 22  |  K1004923-001        | Unknown  | 20   | 200.0     | epa300  | epa300 | Finished |
| 23  |  K1004923-002        | Unknown  | 21   | 200.0     | epa300  | epa300 | Finished |
| 24  |  K1004923-003        | Unknown  | 22   | 200.0     | epa300  | epa300 | Finished |
| 25  |  K1004923-008        | Unknown  | 23   | 200.0     | epa300  | epa300 | Finished |
| 26  |  K1004711-001        | Unknown  | 24   | 200.0     | epa300  | epa300 | Finished |
| 27  |  K1004967-001        | Unknown  | 24   | 200.0     | epa300  | epa300 | Finished |
| 28  |  RB                  | Unknown  | 25   | 200.0     | epa300  | epa300 | Finished |
| 29  |  CCV3                | Unknown  | 26   | 200.0     | epa300  | epa300 | Finished |
| 30  |  CCB3                | Unknown  | 27   | 200.0     | epa300  | epa300 | Finished |
| 31  |  K1004923-002        | Unknown  | 28   | 200.0     | epa300  | epa300 | Finished |
| 32  |  K1004923-002        | Unknown  | 29   | 200.0     | epa300  | epa300 | Finished |
| 33  |  K1004923-002        | Unknown  | 30   | 200.0     | epa300  | epa300 | Finished |
| 34  |  K1004467-001        | Unknown  | 31   | 200.0     | epa300  | epa300 | Finished |
| 35  |  K1004680-001        | Unknown  | 32   | 200.0     | epa300  | epa300 | Finished |
| 36  |  K1004680-002        | Unknown  | 33   | 200.0     | epa300  | epa300 | Finished |
| 37  |  K1004680-003        | Unknown  | 34   | 200.0     | epa300  | epa300 | Finished |
| 38  |  K1004680-004        | Unknown  | 35   | 200.0     | epa300  | epa300 | Finished |
| 39  |  K1004680-005        | Unknown  | 36   | 200.0     | epa300  | epa300 | Finished |
| 40  |  RB                  | Unknown  | 37   | 200.0     | epa300  | epa300 | Finished |
| 41  |  CCV4                | Unknown  | 38   | 200.0     | epa300  | epa300 | Finished |
| 42  |  CCB4                | Unknown  | 39   | 200.0     | epa300  | epa300 | Finished |

Sequence: IC03052010  
Operator: mblack

Page 2 of 4  
Printed: 5/21/2010 3:42:44 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83  
Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10










































| No. | Name                  | Inj. Date/Time        | Dil. Factor | Comment   |
|-----|-----------------------|-----------------------|-------------|-----------|
| 1   | std2/lvl2             | 4/26/2010 8:54:58 AM  | 1.0000      |           |
| 2   | std3/lvl3             | 4/26/2010 9:12:26 AM  | 1.0000      |           |
| 3   | std4/lvl4             | 4/26/2010 9:25:24 AM  | 1.0000      |           |
| 4   | std5/lvl5             | 4/26/2010 9:38:21 AM  | 1.0000      |           |
| 5   | std6/lvl6             | 4/26/2010 9:51:19 AM  | 1.0000      |           |
| 6   | std7/lvl7             | 4/26/2010 10:04:17 AM | 1.0000      |           |
| 7   | std1/lvl1             | 4/26/2010 10:17:14 AM | 1.0000      |           |
| 8   | CCV AN11-20-H         | 5/20/2010 8:54:44 AM  | 1.0000      | CCV1      |
| 9   | CCB                   | 5/20/2010 9:06:41 AM  | 1.0000      | CCB1      |
| 10  | NO2 AN11-27-CC        | 5/20/2010 9:18:38 AM  | 25.0000     | NO2       |
| 11  | MB                    | 5/20/2010 9:30:36 AM  | 1.0000      | MB        |
| 12  | NO3 AN1-33-E          | 5/20/2010 9:42:34 AM  | 20.0000     | NO3       |
| 13  | CLSO4 ERA #0107-10-02 | 5/20/2010 9:54:32 AM  | 1.0000      | CLSO4     |
| 14  | F AN1-33-D            | 5/20/2010 10:06:30 AM | 2.0000      | F         |
| 15  | Br AN1-33-L           | 5/20/2010 10:18:28 AM | 1.0000      | Br        |
| 16  | SPK AN11-10-M         | 5/20/2010 10:30:26 AM | 1.0000      | SPK       |
| 17  | CCV2                  | 5/20/2010 10:42:24 AM | 1.0000      | CCV2      |
| 18  | CCB2                  | 5/20/2010 10:54:21 AM | 1.0000      | CCB2      |
| 19  | K1005105-001          | 5/20/2010 11:17:40 AM | 2.0000      |           |
| 20  | K1005149-002          | 5/20/2010 11:54:10 AM | 2.0000      |           |
| 21  | K4536-1 BEXT          | 5/20/2010 12:14:49 PM | 20.0000     |           |
| 22  | K1004923-001          | 5/20/2010 12:26:47 PM | 2.0000      |           |
| 23  | K1004923-002          | 5/20/2010 12:38:45 PM | 2.0000      |           |
| 24  | K1004923-003          | 5/20/2010 12:50:43 PM | 2.0000      |           |
| 25  | K1004923-008          | 5/20/2010 1:02:41 PM  | 2.0000      |           |
| 26  | K1004711-001          | 5/20/2010 1:14:40 PM  | 2.0000      |           |
| 27  | K1004967-001          | 5/20/2010 1:26:37 PM  | 50.0000     |           |
| 28  | RB                    | 5/20/2010 1:38:35 PM  | 1.0000      |           |
| 29  | CCV3                  | 5/20/2010 1:50:33 PM  | 1.0000      | CCV3      |
| 30  | CCB3                  | 5/20/2010 2:02:31 PM  | 1.0000      | CCB3      |
| 31  | K1004923-002          | 5/20/2010 2:14:29 PM  | 2.0000      | 4923-2D   |
| 32  | K1004923-002          | 5/20/2010 2:26:27 PM  | 2.0000      | 4923-2MS  |
| 33  | K1004923-002          | 5/20/2010 2:38:25 PM  | 2.0000      | 4923-2MSD |
| 34  | K1004467-001          | 5/20/2010 2:50:22 PM  | 2.0000      |           |
| 35  | K1004680-001          | 5/20/2010 3:02:20 PM  | 2.0000      |           |
| 36  | K1004680-002          | 5/20/2010 3:14:18 PM  | 2.0000      |           |
| 37  | K1004680-003          | 5/20/2010 3:26:17 PM  | 2.0000      |           |
| 38  | K1004680-004          | 5/20/2010 3:38:15 PM  | 2.0000      |           |
| 39  | K1004680-005          | 5/20/2010 3:50:12 PM  | 2.0000      |           |
| 40  | RB                    | 5/20/2010 4:02:10 PM  | 1.0000      |           |
| 41  | CCV4                  | 5/20/2010 4:14:07 PM  | 1.0000      | CCV4      |
| 42  | CCB4                  | 5/20/2010 4:26:05 PM  | 1.0000      | CCB4      |



Sequence: IC03052010  
Operator: mblack

Page 3 of 4  
Printed: 5/21/2010 3:42:44 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83  
Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name   | Type    | Pos. | Inj. Vol. | Program      | Method | Status   |
|-----|--|---------|------|-----------|--------------|--------|----------|
| 43  |  K1005160-001   | Unknown | 40   | 200.0     | epa300       | epa300 | Finished |
| 44  |  K1005161-001   | Unknown | 41   | 200.0     | epa300       | epa300 | Finished |
| 45  |  K1005161-002   | Unknown | 42   | 200.0     | epa300       | epa300 | Finished |
| 46  |  K1005150-001   | Unknown | 43   | 200.0     | epa300       | epa300 | Finished |
| 47  |  K1005150-001   | Unknown | 44   | 200.0     | epa300       | epa300 | Finished |
| 48  |  K1005149-002   | Unknown | 45   | 200.0     | epa300       | epa300 | Finished |
| 49  |  K1004923-003   | Unknown | 46   | 200.0     | epa300       | epa300 | Finished |
| 50  |  K1004467-001   | Unknown | 47   | 200.0     | epa300       | epa300 | Finished |
| 51  |  K1004575-001   | Unknown | 48   | 200.0     | epa300       | epa300 | Finished |
| 52  |  RB             | Unknown | 49   | 200.0     | epa300       | epa300 | Finished |
| 53  |  CCV5           | Unknown | 50   | 200.0     | epa300       | epa300 | Finished |
| 54  |  CCB5           | Unknown | 51   | 200.0     | epa300       | epa300 | Finished |
| 55  |  MB 2           | Unknown | 52   | 200.0     | epa300       | epa300 | Finished |
| 56  |  CLSO4 2        | Unknown | 53   | 200.0     | epa300       | epa300 | Finished |
| 57  |  K1004470-001   | Unknown | 54   | 200.0     | epa300       | epa300 | Finished |
| 58  |  K1004470-002   | Unknown | 55   | 200.0     | epa300       | epa300 | Finished |
| 59  |  K1004470-003  | Unknown | 56   | 200.0     | epa300       | epa300 | Finished |
| 60  |  K1004470-004 | Unknown | 57   | 200.0     | epa300       | epa300 | Finished |
| 61  |  K1004470-005 | Unknown | 58   | 200.0     | epa300       | epa300 | Finished |
| 62  |  K1004470-006 | Unknown | 59   | 200.0     | epa300       | epa300 | Finished |
| 63  |  K1004470-007 | Unknown | 60   | 200.0     | epa300       | epa300 | Finished |
| 64  |  RB           | Unknown | 61   | 200.0     | epa300       | epa300 | Finished |
| 65  |  CCV6         | Unknown | 62   | 200.0     | epa300       | epa300 | Finished |
| 66  |  CCB6         | Unknown | 63   | 200.0     | epa300       | epa300 | Finished |
| 67  |  K1004470-008 | Unknown | 64   | 200.0     | epa300       | epa300 | Finished |
| 68  |  K1004470-009 | Unknown | 65   | 200.0     | epa300       | epa300 | Finished |
| 69  |  K1004470-010 | Unknown | 66   | 200.0     | epa300       | epa300 | Finished |
| 70  |  K1004470-011 | Unknown | 67   | 200.0     | epa300       | epa300 | Finished |
| 71  |  K1004470-012 | Unknown | 68   | 200.0     | epa300       | epa300 | Finished |
| 72  |  K1004470-012 | Unknown | 69   | 200.0     | epa300       | epa300 | Finished |
| 73  |  K1004470-012 | Unknown | 70   | 200.0     | epa300       | epa300 | Finished |
| 74  |  K1004470-012 | Unknown | 71   | 200.0     | epa300       | epa300 | Finished |
| 75  |  K1004470-013 | Unknown | 72   | 200.0     | epa300       | epa300 | Finished |
| 76  |  RB           | Unknown | 73   | 200.0     | epa300       | epa300 | Finished |
| 77  |  CCV7         | Unknown | 74   | 200.0     | epa300       | epa300 | Finished |
| 78  |  CCB7         | Unknown | 75   | 200.0     | epa300       | epa300 | Finished |
| 79  |  K1004470-014 | Unknown | 76   | 200.0     | epa300       | epa300 | Finished |
| 80  |  RB           | Unknown | 77   | 200.0     | epa300       | epa300 | Finished |
| 81  |  CCV8         | Unknown | 78   | 200.0     | epa300       | epa300 | Finished |
| 82  |  CCB8         | Unknown | 79   | 200.0     | epa300       | epa300 | Finished |
| 83  |  SHUTDOWN     | Unknown | 80   | 200.0     | shutdown 120 | epa300 | Finished |

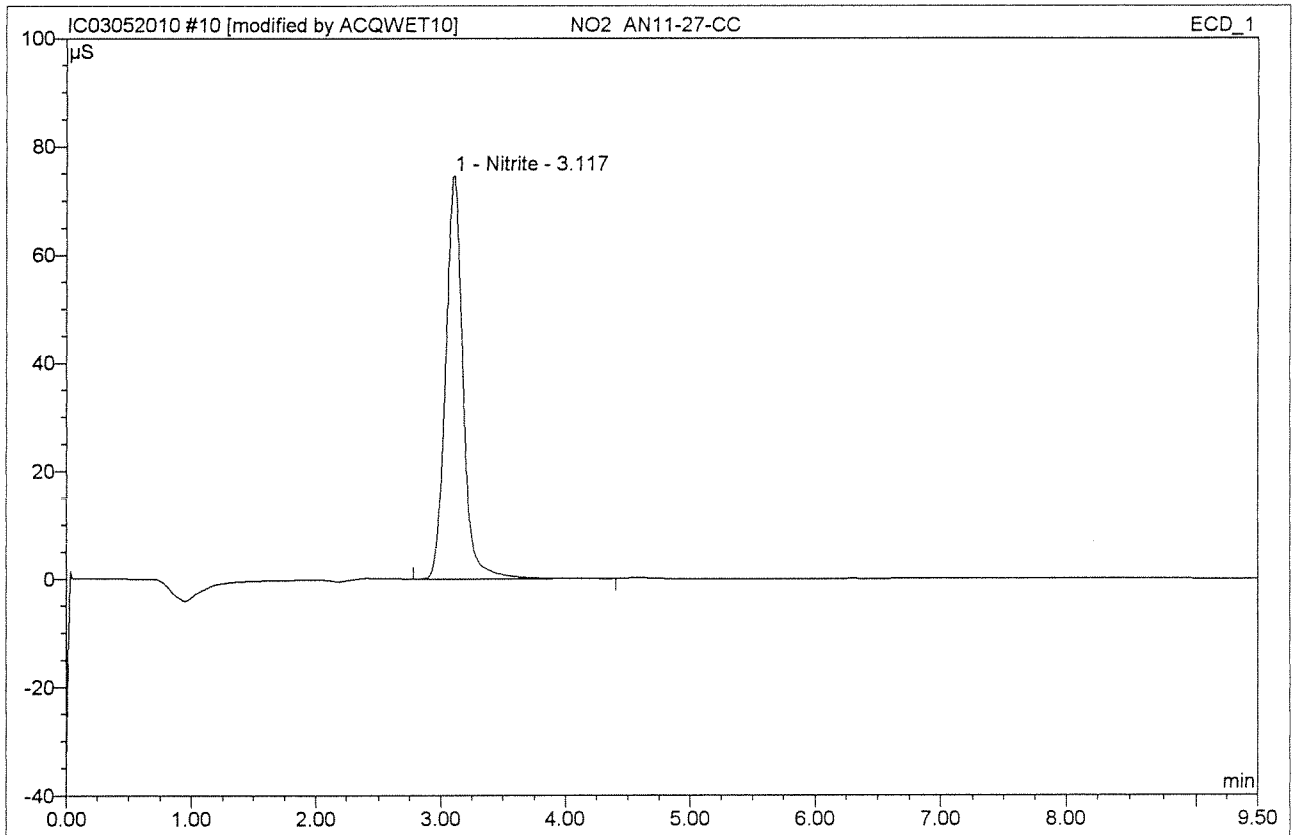
Sequence: IC03052010  
Operator: mblack

Page 4 of 4  
Printed: 5/21/2010 3:42:44 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83  
Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name         | Inj. Date/Time        | Dil. Factor | Comment    |
|-----|--------------|-----------------------|-------------|------------|
| 43  | K1005160-001 | 5/20/2010 4:38:02 PM  | 2.0000      |            |
| 44  | K1005161-001 | 5/20/2010 4:50:00 PM  | 2.0000      |            |
| 45  | K1005161-002 | 5/20/2010 5:01:58 PM  | 2.0000      |            |
| 46  | K1005150-001 | 5/20/2010 5:13:55 PM  | 5.0000      |            |
| 47  | K1005150-001 | 5/20/2010 5:25:53 PM  | 200.0000    |            |
| 48  | K1005149-002 | 5/20/2010 5:37:50 PM  | 20.0000     |            |
| 49  | K1004923-003 | 5/20/2010 5:49:48 PM  | 5.0000      |            |
| 50  | K1004467-001 | 5/20/2010 6:01:45 PM  | 10.0000     |            |
| 51  | K1004575-001 | 5/20/2010 6:13:43 PM  | 2.0000      |            |
| 52  | RB           | 5/20/2010 6:25:41 PM  | 1.0000      |            |
| 53  | CCV5         | 5/20/2010 6:37:38 PM  | 1.0000      | CCV5       |
| 54  | CCB5         | 5/20/2010 6:49:36 PM  | 1.0000      | CCB5       |
| 55  | MB 2         | 5/20/2010 7:01:34 PM  | 1.0000      | MB 2       |
| 56  | CLSO4 2      | 5/20/2010 7:13:32 PM  | 1.0000      | CLSO4 2    |
| 57  | K1004470-001 | 5/20/2010 7:25:30 PM  | 10.0000     |            |
| 58  | K1004470-002 | 5/20/2010 7:37:27 PM  | 1.0000      |            |
| 59  | K1004470-003 | 5/20/2010 7:49:25 PM  | 10.0000     |            |
| 60  | K1004470-004 | 5/20/2010 8:01:23 PM  | 2.0000      |            |
| 61  | K1004470-005 | 5/20/2010 8:13:20 PM  | 50.0000     |            |
| 62  | K1004470-006 | 5/20/2010 8:25:18 PM  | 20.0000     |            |
| 63  | K1004470-007 | 5/20/2010 8:37:15 PM  | 2.0000      |            |
| 64  | RB           | 5/20/2010 8:49:13 PM  | 1.0000      |            |
| 65  | CCV6         | 5/20/2010 9:01:11 PM  | 1.0000      | CCV6       |
| 66  | CCB6         | 5/20/2010 9:13:09 PM  | 1.0000      | CCB6       |
| 67  | K1004470-008 | 5/20/2010 9:25:07 PM  | 200.0000    |            |
| 68  | K1004470-009 | 5/20/2010 9:37:04 PM  | 20.0000     |            |
| 69  | K1004470-010 | 5/20/2010 9:49:02 PM  | 20.0000     |            |
| 70  | K1004470-011 | 5/20/2010 10:01:00 PM | 2.0000      |            |
| 71  | K1004470-012 | 5/20/2010 10:12:57 PM | 50.0000     |            |
| 72  | K1004470-012 | 5/20/2010 10:24:55 PM | 50.0000     | 4470-12D   |
| 73  | K1004470-012 | 5/20/2010 10:36:53 PM | 50.0000     | 4470-12MS  |
| 74  | K1004470-012 | 5/20/2010 10:48:51 PM | 50.0000     | 4470-12MSD |
| 75  | K1004470-013 | 5/20/2010 11:00:48 PM | 200.0000    |            |
| 76  | RB           | 5/20/2010 11:12:46 PM | 1.0000      |            |
| 77  | CCV7         | 5/20/2010 11:24:44 PM | 1.0000      | CCV7       |
| 78  | CCB7         | 5/20/2010 11:36:42 PM | 1.0000      | CCV7       |
| 79  | K1004470-014 | 5/20/2010 11:48:39 PM | 50.0000     |            |
| 80  | RB           | 5/21/2010 12:00:37 AM | 1.0000      |            |
| 81  | CCV8         | 5/21/2010 12:12:34 AM | 1.0000      | CCV8       |
| 82  | CCB8         | 5/21/2010 12:24:33 AM | 1.0000      | CCB8       |
| 83  | SHUTDOWN     | 5/21/2010 12:36:30 AM | 1.0000      |            |

|                          |                |                   |         |
|--------------------------|----------------|-------------------|---------|
| <b>10 NO2 AN11-27-CC</b> |                |                   |         |
| <b>NO2</b>               |                |                   |         |
| Sample Name:             | NO2 AN11-27-CC | Injection Volume: | 200.0   |
| Vial Number:             | 10             | Channel:          | ECD_1   |
| Sample Type:             | unknown        | Wavelength:       | n.a.    |
| Control Program:         | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method:         | epa300         | Dilution Factor:  | 25.0000 |
| Recording Time:          | 5/20/2010 9:18 | Sample Weight:    | 1.0000  |
| Run Time (min):          | 9.50           | Sample Amount:    | 1.0000  |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount  | Type      |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|-----------|
| 1             | 3.12            | Nitrite   | 74.628       | 12.169         | 100.00        | 105.368 | 105% BMB* |
| <b>Total:</b> |                 |           | 74.628       | 12.169         | 100.00        | 105.368 |           |

*Handwritten signature*

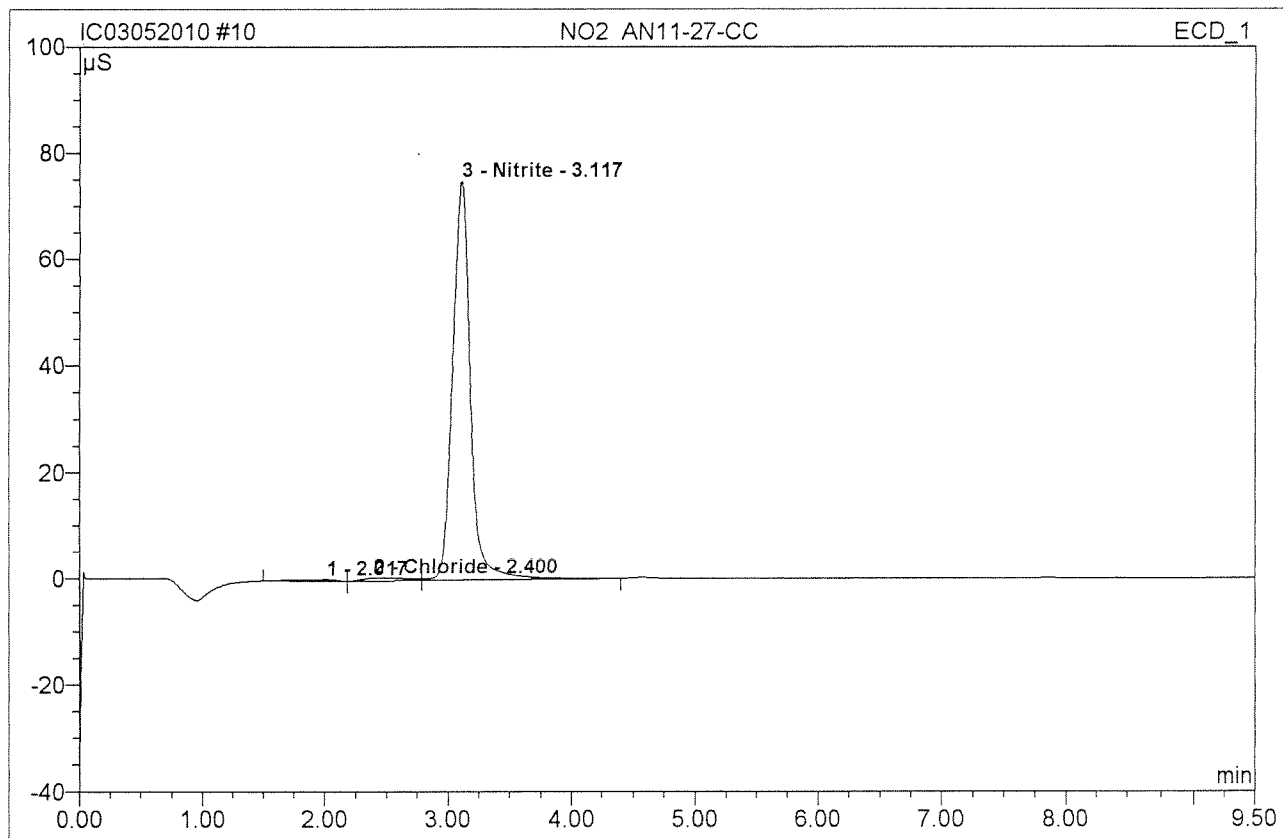
*Handwritten date: 5/25/10*



### 10 NO2 AN11-27-CC

#### NO2

|                  |                |                   |         |
|------------------|----------------|-------------------|---------|
| Sample Name:     | NO2 AN11-27-CC | Injection Volume: | 200.0   |
| Vial Number:     | 10             | Channel:          | ECD_1   |
| Sample Type:     | unknown        | Wavelength:       | n.a.    |
| Control Program: | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300         | Dilution Factor:  | 25.0000 |
| Recording Time:  | 5/20/2010 9:18 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000  |

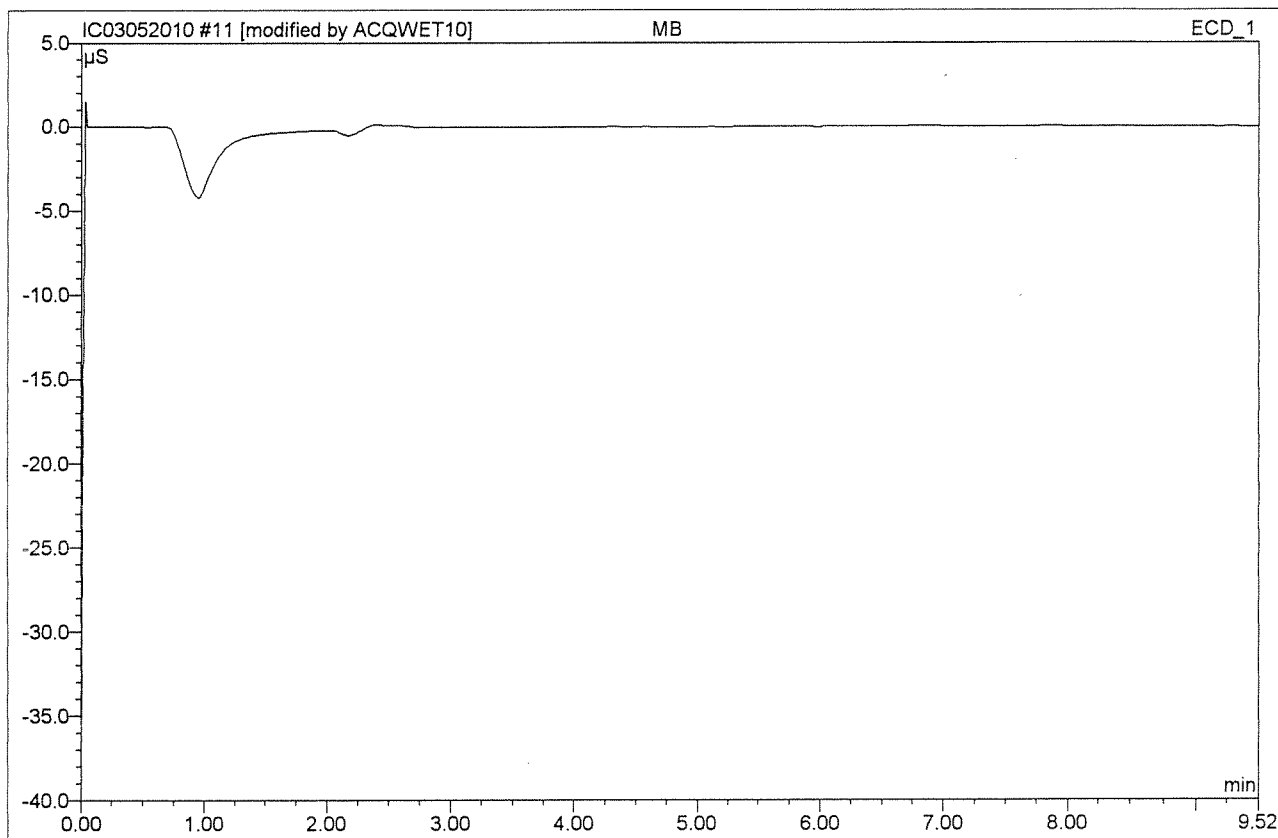


| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|---------|------|
| 1             | 2.02             | n.a.      | 0.313                   | 0.125                                | 0.97           | n.a.    | BMb  |
| 2             | 2.40             | Chloride  | 0.607                   | 0.249                                | 1.94           | 3.991   | bM   |
| 3             | 3.12             | Nitrite   | 74.912                  | 12.459                               | 97.09          | 107.876 | MB   |
| <b>Total:</b> |                  |           | 75.832                  | 12.833                               | 100.00         | 111.866 |      |

Before

MAY 20 2010

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52           | Sample Amount:    | 1.0000 |



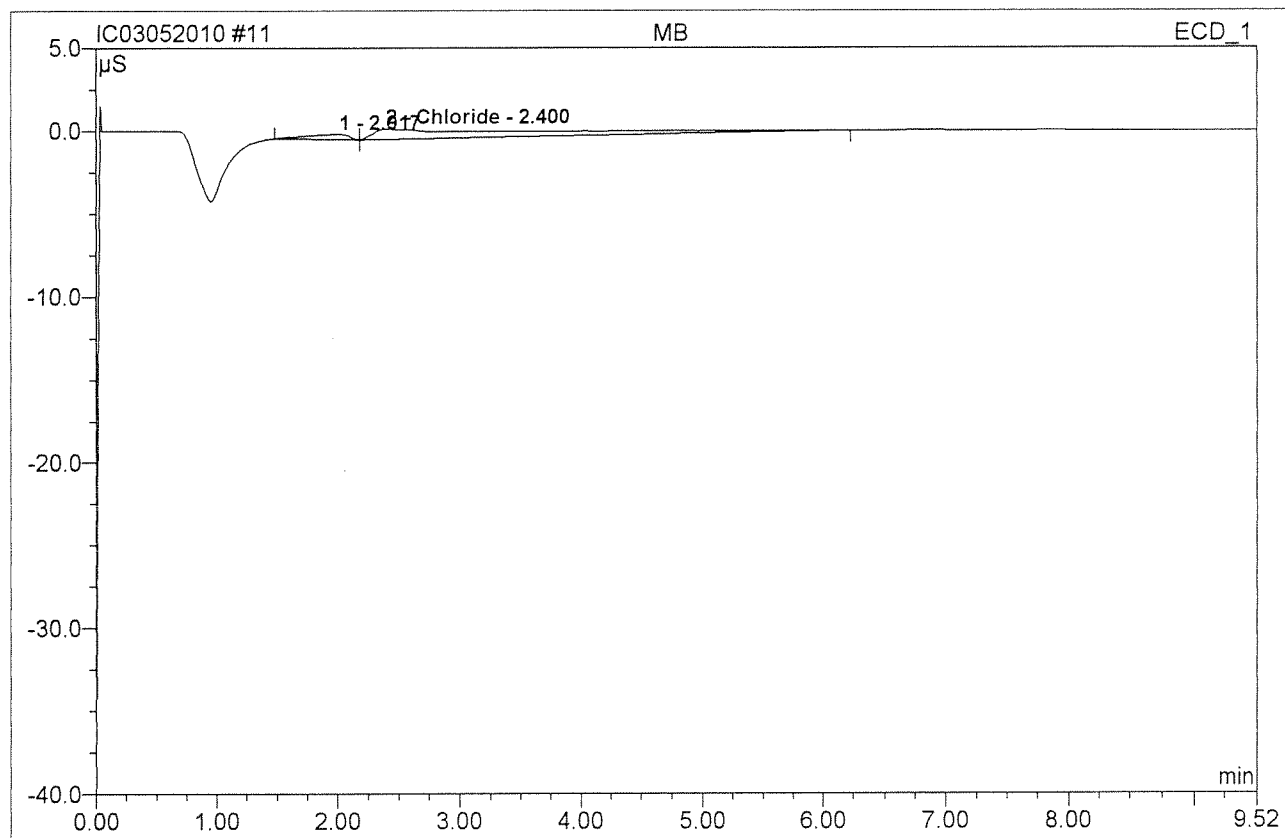
| No.    | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|--------------|----------------|----------------|--------|------|
| Total: |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

MB

5/25/10

5/20/2010

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52           | Sample Amount:    | 1.0000 |



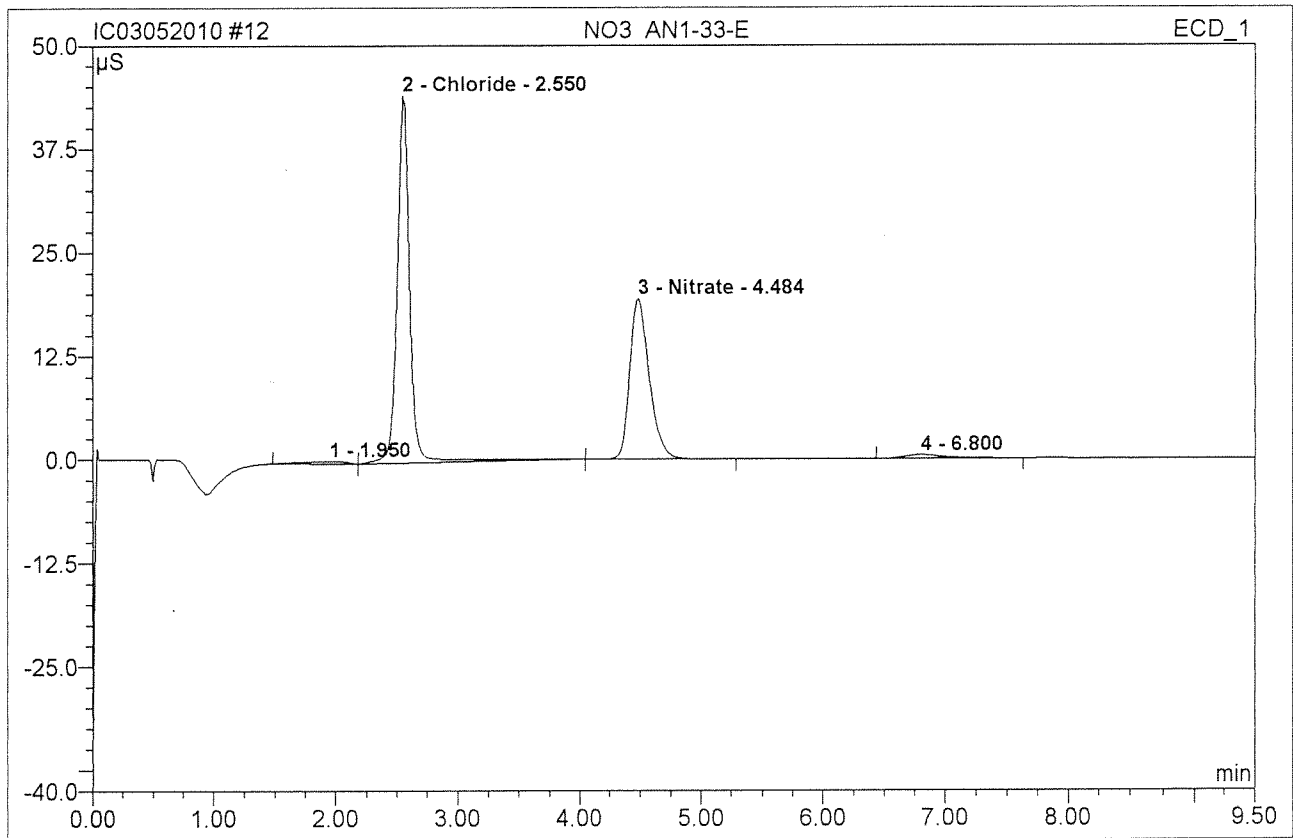
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.02             | n.a.      | 0.302        | 0.125          | 11.44         | n.a.   | BMB  |
| 2             | 2.40             | Chloride  | 0.632        | 0.968          | 88.56         | 0.621  | bMB  |
| <b>Total:</b> |                  |           | 0.934        | 1.093          | 100.00        | 0.621  |      |

Before

MAY 20 2010



|                        |                |                   |         |
|------------------------|----------------|-------------------|---------|
| <b>12 NO3 AN1-33-E</b> |                |                   |         |
| <b>NO3</b>             |                |                   |         |
| Sample Name:           | NO3 AN1-33-E   | Injection Volume: | 200.0   |
| Vial Number:           | 11             | Channel:          | ECD_1   |
| Sample Type:           | unknown        | Wavelength:       | n.a.    |
| Control Program:       | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300         | Dilution Factor:  | 20.0000 |
| Recording Time:        | 5/20/2010 9:42 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50           | Sample Amount:    | 1.0000  |

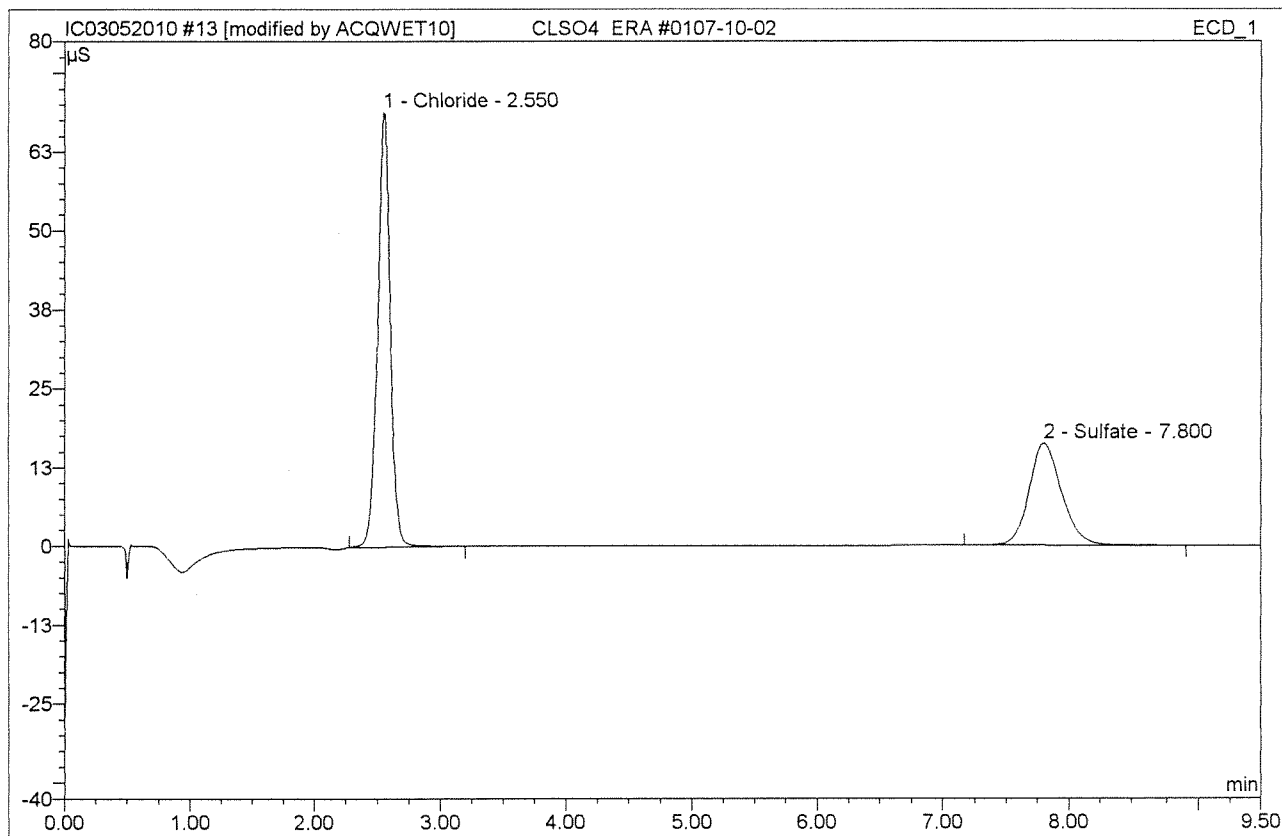


| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.95         | n.a.      | 0.316     | 0.135       | 1.44       | n.a.   | BMB  |
| 2             | 2.55         | Chloride  | 44.339    | 5.399       | 57.79      | 69.233 | bMB  |
| 3             | 4.48         | Nitrate   | 19.325    | 3.641       | 38.97      | 19.766 | bMB  |
| 4             | 6.80         | n.a.      | 0.454     | 0.168       | 1.80       | n.a.   | BMB  |
| <b>Total:</b> |              |           | 64.435    | 9.342       | 100.00     | 88.999 |      |

### 13 CLSO4 ERA #0107-10-02

#### CLSO4

|                  |                       |                   |        |
|------------------|-----------------------|-------------------|--------|
| Sample Name:     | CLSO4 ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                    | Channel:          | ECD_1  |
| Sample Type:     | unknown               | Wavelength:       | n.a.   |
| Control Program: | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:54        | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50                  | Sample Amount:    | 1.0000 |



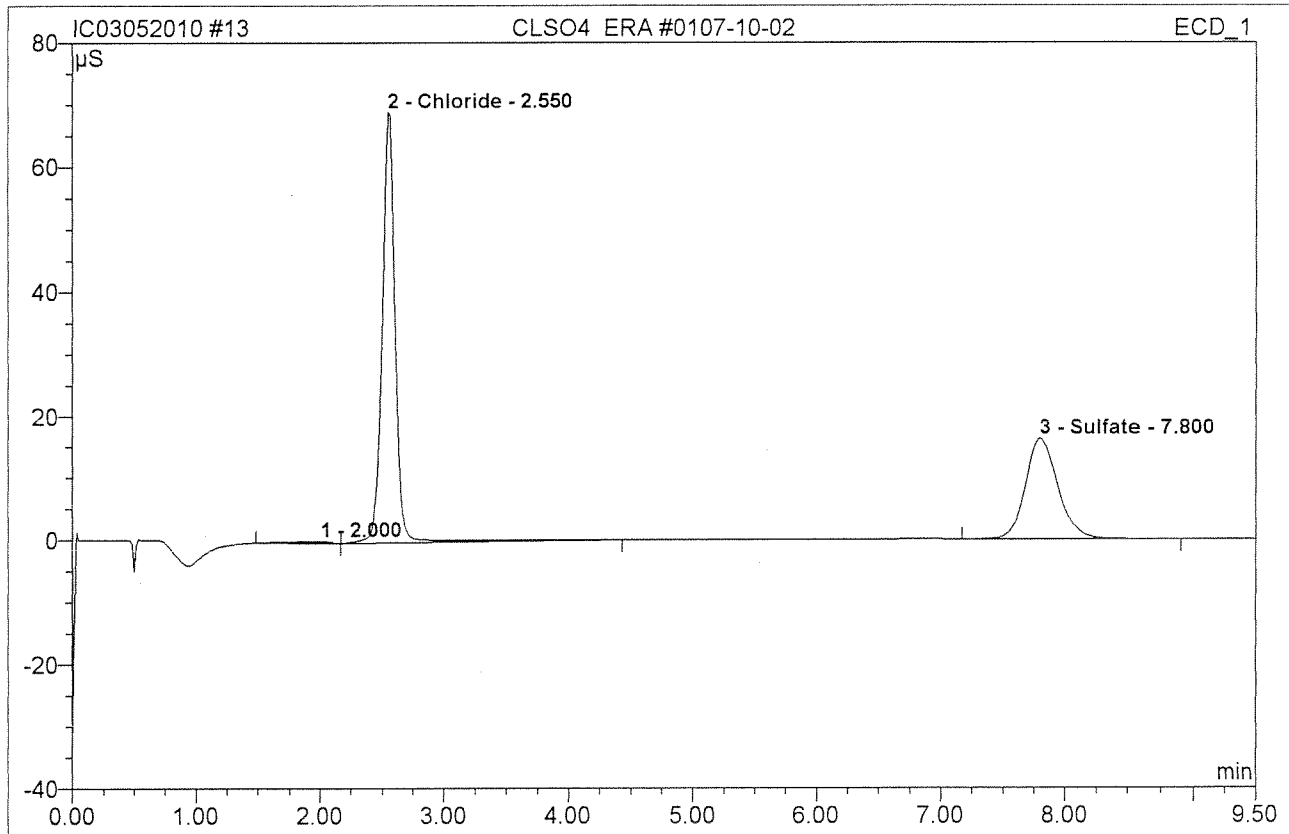
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount     | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|------------|------|
| 1             | 2.55             | Chloride  | 68.863       | 8.035          | 62.04          | 5.152/632  | BMB* |
| 2             | 7.80             | Sulfate   | 16.224       | 4.917          | 37.96          | 4.996/1002 | BMB  |
| <b>Total:</b> |                  |           | 85.087       | 12.952         | 100.00         | 10.149     |      |

12

5/25/10

**13 CLSO4 ERA #0107-10-02****CLSO4**

|                  |                       |                   |        |
|------------------|-----------------------|-------------------|--------|
| Sample Name:     | CLSO4 ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                    | Channel:          | ECD_1  |
| Sample Type:     | unknown               | Wavelength:       | n.a.   |
| Control Program: | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:54        | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50                  | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.00             | n.a.      | 0.310        | 0.125          | 0.93           | n.a.   | BMB  |
| 2             | 2.55             | Chloride  | 69.169       | 8.481          | 62.72          | 5.438  | bMB  |
| 3             | 7.80             | Sulfate   | 16.224       | 4.917          | 36.36          | 4.996  | BMB  |
| <b>Total:</b> |                  |           | 85.703       | 13.523         | 100.00         | 10.434 |      |

Setpoint

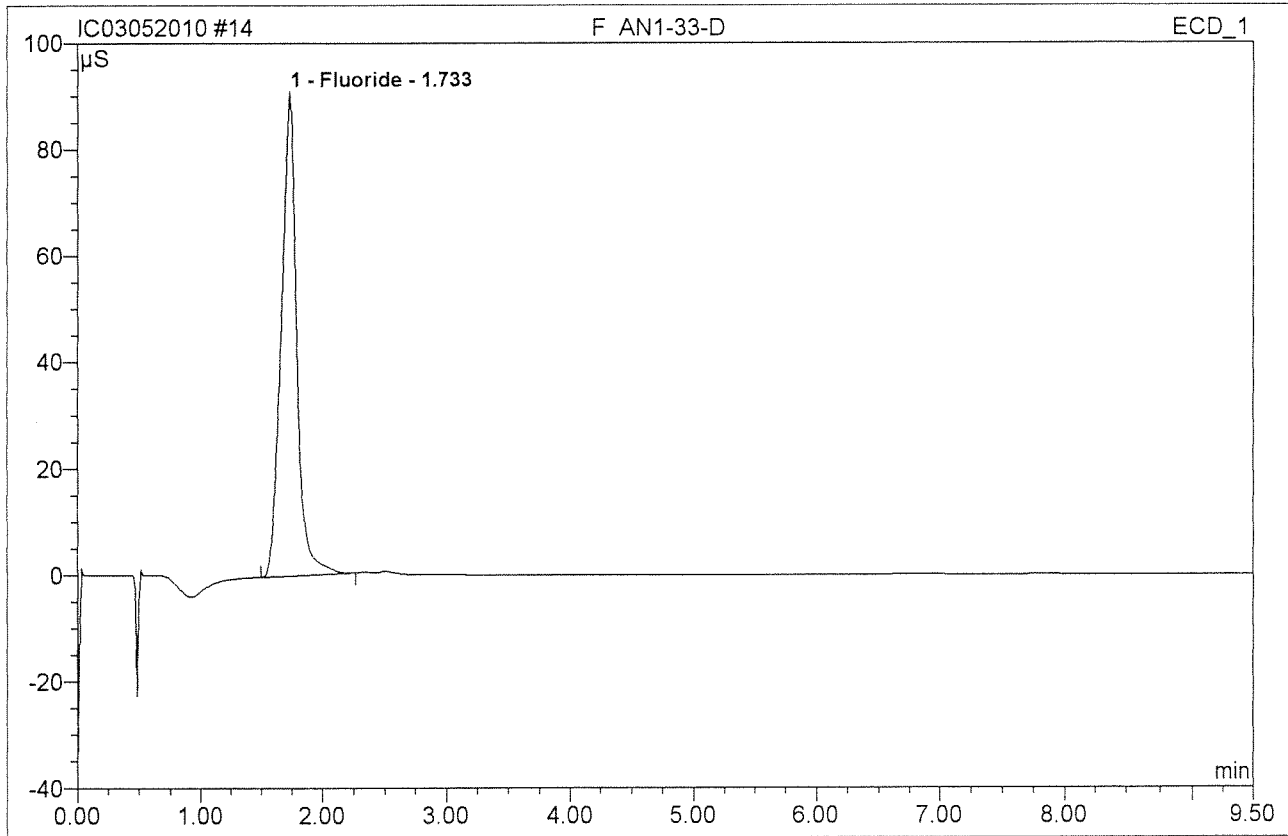
MAY 20 2010



**14 F AN1-33-D**

**F**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | F AN1-33-D      | Injection Volume: | 200.0  |
| Vial Number:     | 13              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 10:06 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

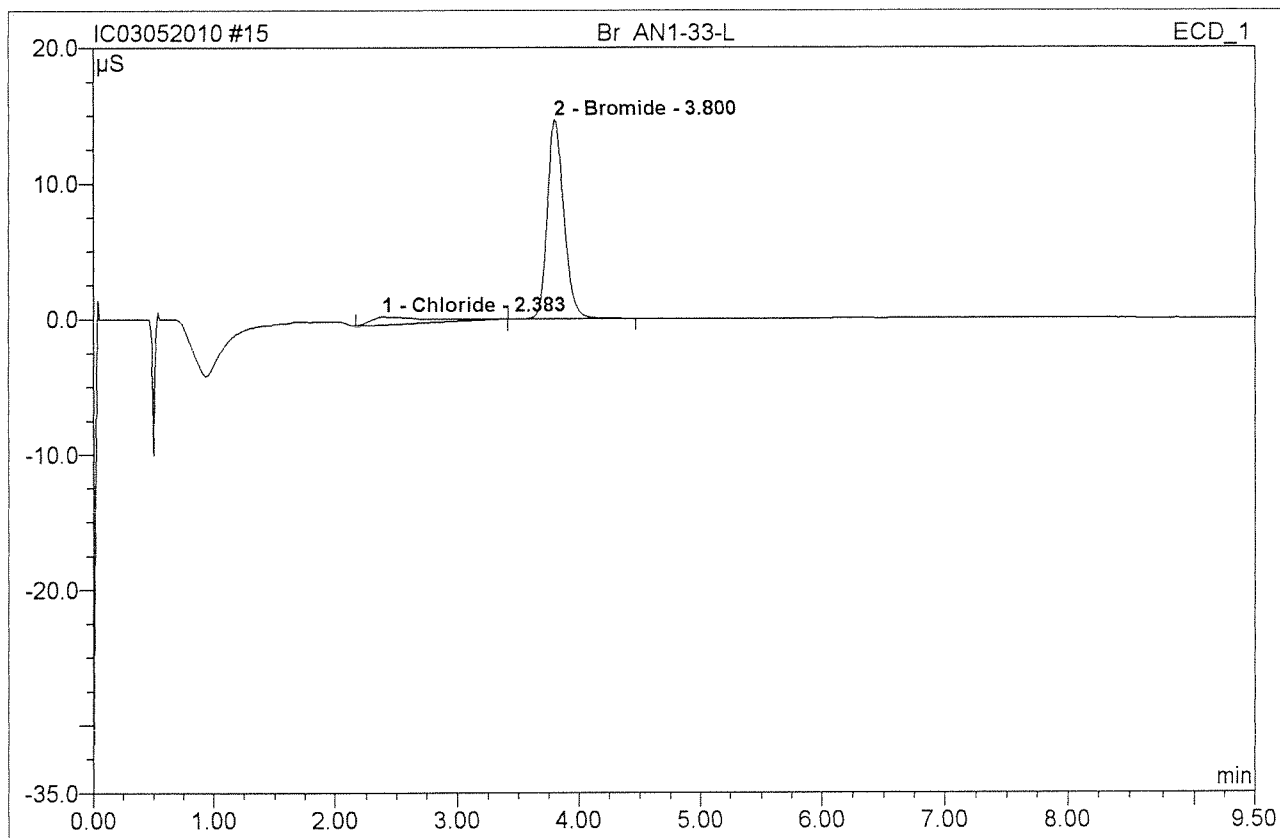


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount     | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|------------|------|
| 1             | 1.73             | Fluoride  | 90.907       | 13.326         | 100.00         | 13.929/63% | BMB  |
| <b>Total:</b> |                  |           | 90.907       | 13.326         | 100.00         | 13.929     |      |

### 15 Br AN1-33-L

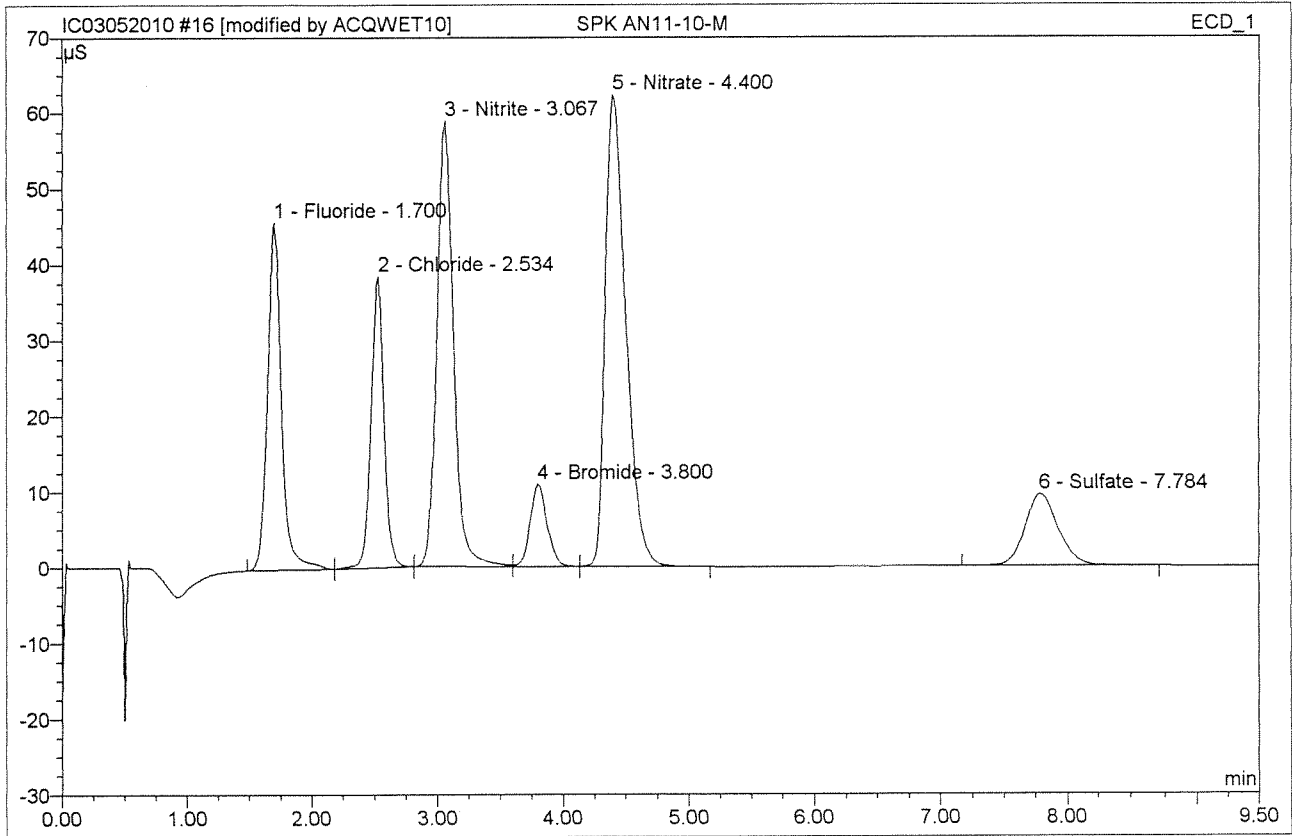
Br

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | Br AN1-33-L     | Injection Volume: | 200.0  |
| Vial Number:     | 14              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:18 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount       | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------------|------|
| 1             | 2.38             | Chloride  | 0.595        | 0.314          | 11.87          | 0.201        | BMB  |
| 2             | 3.80             | Bromide   | 14.672       | 2.329          | 88.13          | 4.346 (0.92) | bMB  |
| <b>Total:</b> |                  |           | 15.267       | 2.642          | 100.00         | 4.547        |      |

|                         |                 |                   |        |
|-------------------------|-----------------|-------------------|--------|
| <b>16 SPK AN11-10-M</b> |                 |                   |        |
| <b>SPK</b>              |                 |                   |        |
| Sample Name:            | SPK AN11-10-M   | Injection Volume: | 200.0  |
| Vial Number:            | 15              | Channel:          | ECD_1  |
| Sample Type:            | unknown         | Wavelength:       | n.a.   |
| Control Program:        | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:        | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:         | 5/20/2010 10:30 | Sample Weight:    | 1.0000 |
| Run Time (min):         | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.70            | Fluoride  | 45.876       | 5.850          | 16.35         | 3.057  | BMB  |
| 2             | 2.53            | Chloride  | 38.469       | 4.542          | 12.70         | 2.912  | bMb  |
| 3             | 3.07            | Nitrite   | 58.803       | 9.013          | 25.20         | 3.122  | bM * |
| 4             | 3.80            | Bromide   | 10.919       | 1.705          | 4.77          | 3.182  | Mb*  |
| 5             | 4.40            | Nitrate   | 62.250       | 11.747         | 32.84         | 3.189  | bMB  |
| 6             | 7.78            | Sulfate   | 9.510        | 2.915          | 8.15          | 2.962  | BMB  |
| <b>Total:</b> |                 |           | 225.828      | 35.772         | 100.00        | 18.424 |      |

TV=3.00

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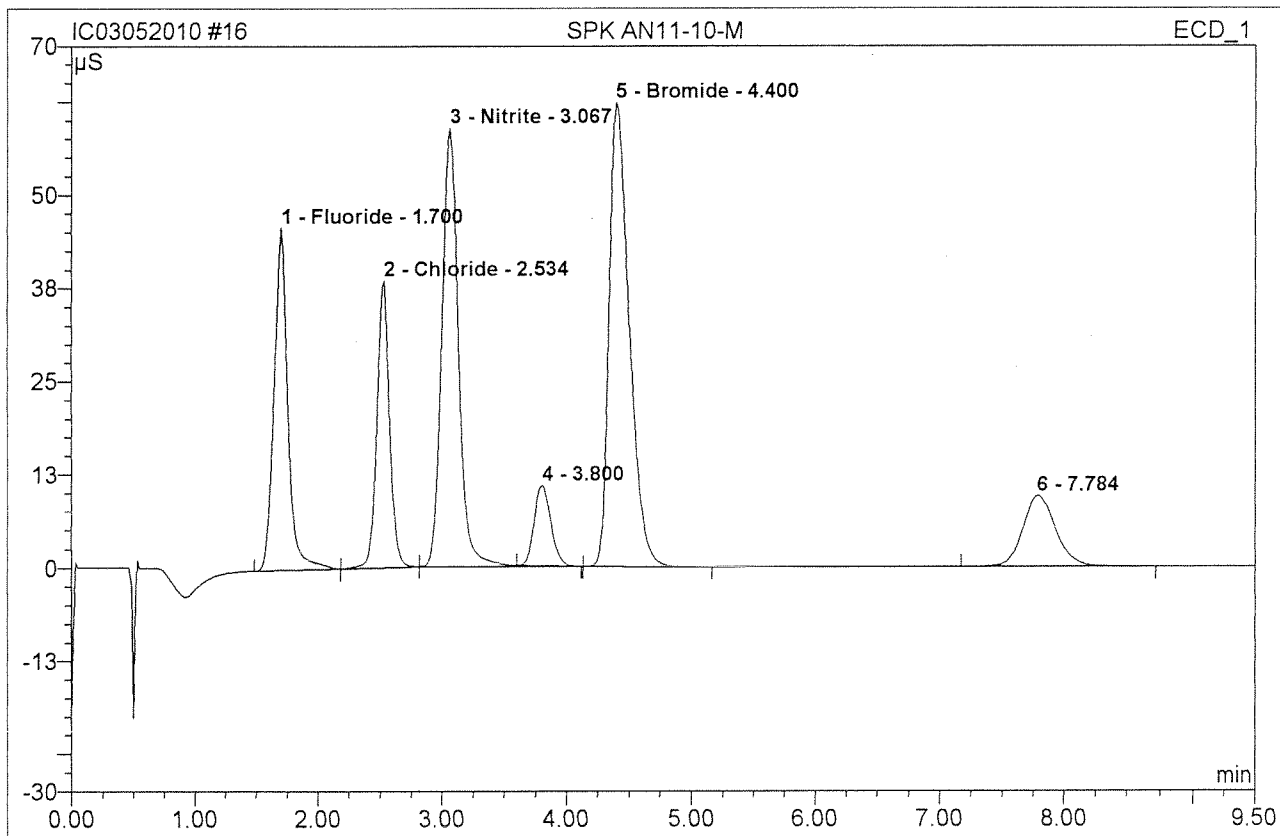
5/25/10



### 16 SPK AN11-10-M

#### SPK

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | SPK AN11-10-M   | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

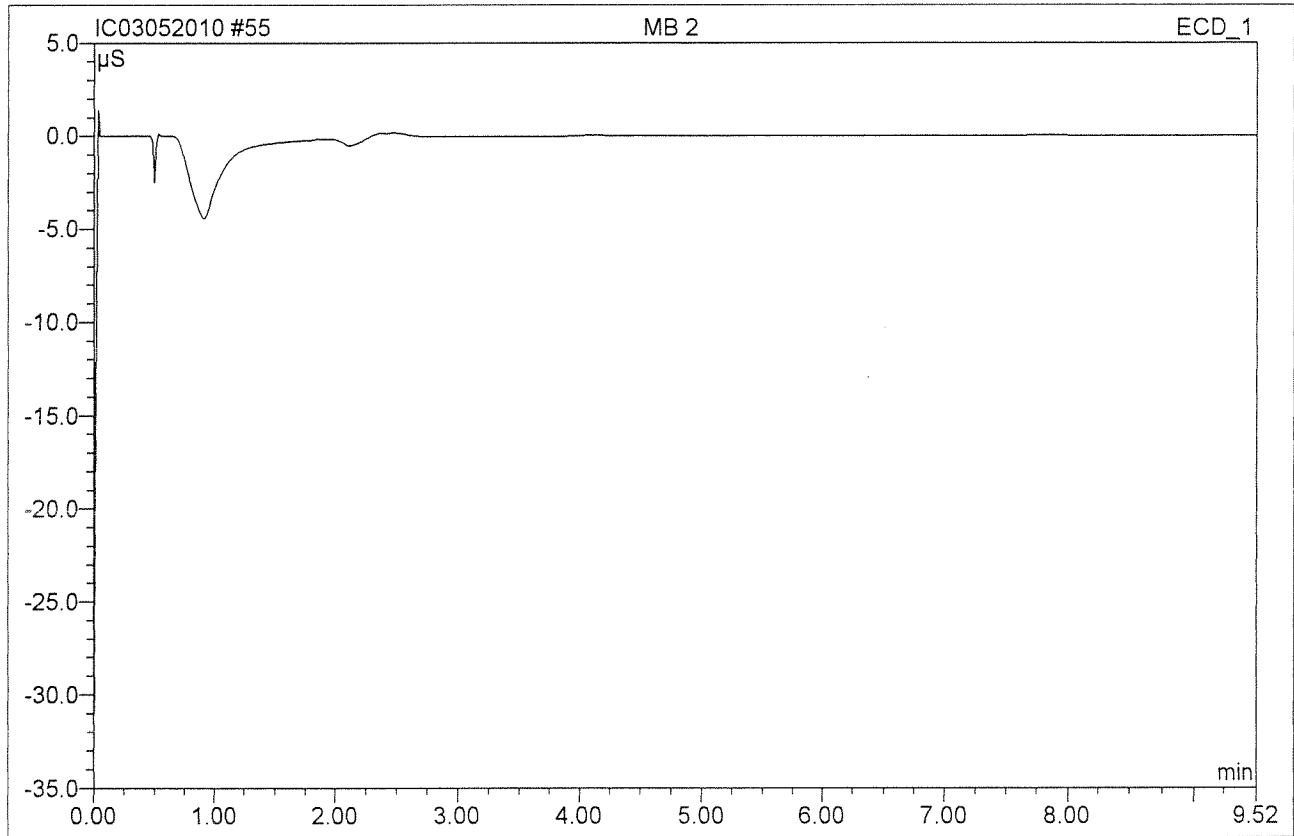


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.70             | Fluoride  | 45.876       | 5.850          | 16.35          | 3.057  | BMb  |
| 2             | 2.53             | Chloride  | 38.469       | 4.542          | 12.70          | 2.912  | bMb  |
| 3             | 3.07             | Nitrite   | 58.803       | 9.060          | 25.33          | 3.138  | bMb  |
| 4             | 3.80             | n.a.      | 10.810       | 1.659          | 4.64           | n.a.   | Rd   |
| 5             | 4.40             | Bromide   | 62.250       | 11.747         | 32.84          | 21.924 | bMB  |
| 6             | 7.78             | n.a.      | 9.510        | 2.915          | 8.15           | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 225.718      | 35.772         | 100.00         | 31.031 |      |

Before

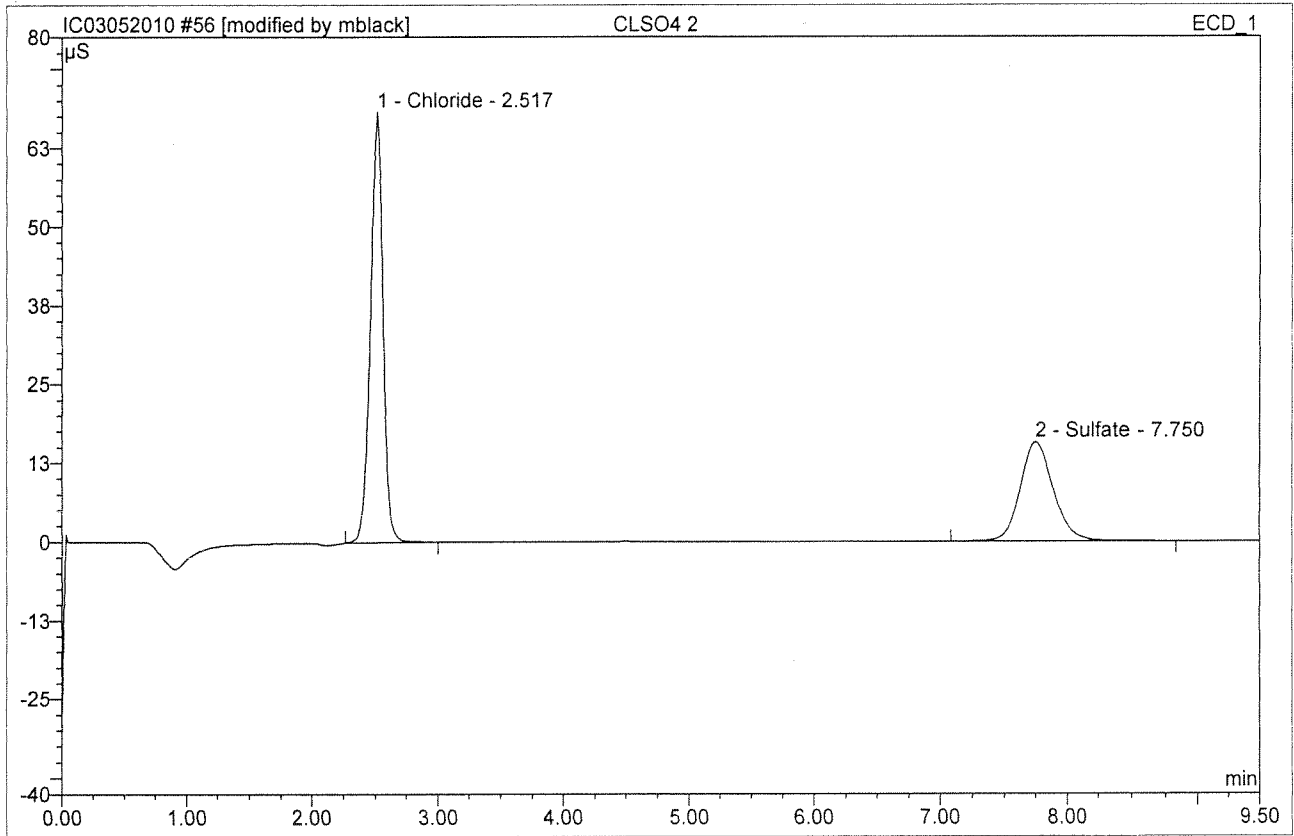
MAY 20 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>55 MB 2</b>   |                 |                   |        |
| <b>MB 2</b>      |                 |                   |        |
| Sample Name:     | MB 2            | Injection Volume: | 200.0  |
| Vial Number:     | 52              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 19:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

|                   |                 |                   |        |
|-------------------|-----------------|-------------------|--------|
| <b>56 CLSO4 2</b> |                 |                   |        |
| <b>CLSO4 2</b>    |                 |                   |        |
| Sample Name:      | CLSO4 2         | Injection Volume: | 200.0  |
| Vial Number:      | 53              | Channel:          | ECD_1  |
| Sample Type:      | unknown         | Wavelength:       | n.a.   |
| Control Program:  | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:  | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:   | 5/20/2010 19:13 | Sample Weight:    | 1.0000 |
| Run Time (min):   | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 2.52         | Chloride  | 68.281    | 7.836       | 62.20      | 5.025/01% | BMB* |
| 2             | 7.75         | Sulfate   | 15.768    | 4.763       | 37.80      | 4.840/97% | BMB  |
| <b>Total:</b> |              |           | 84.049    | 12.599      | 100.00     | 9.864     |      |

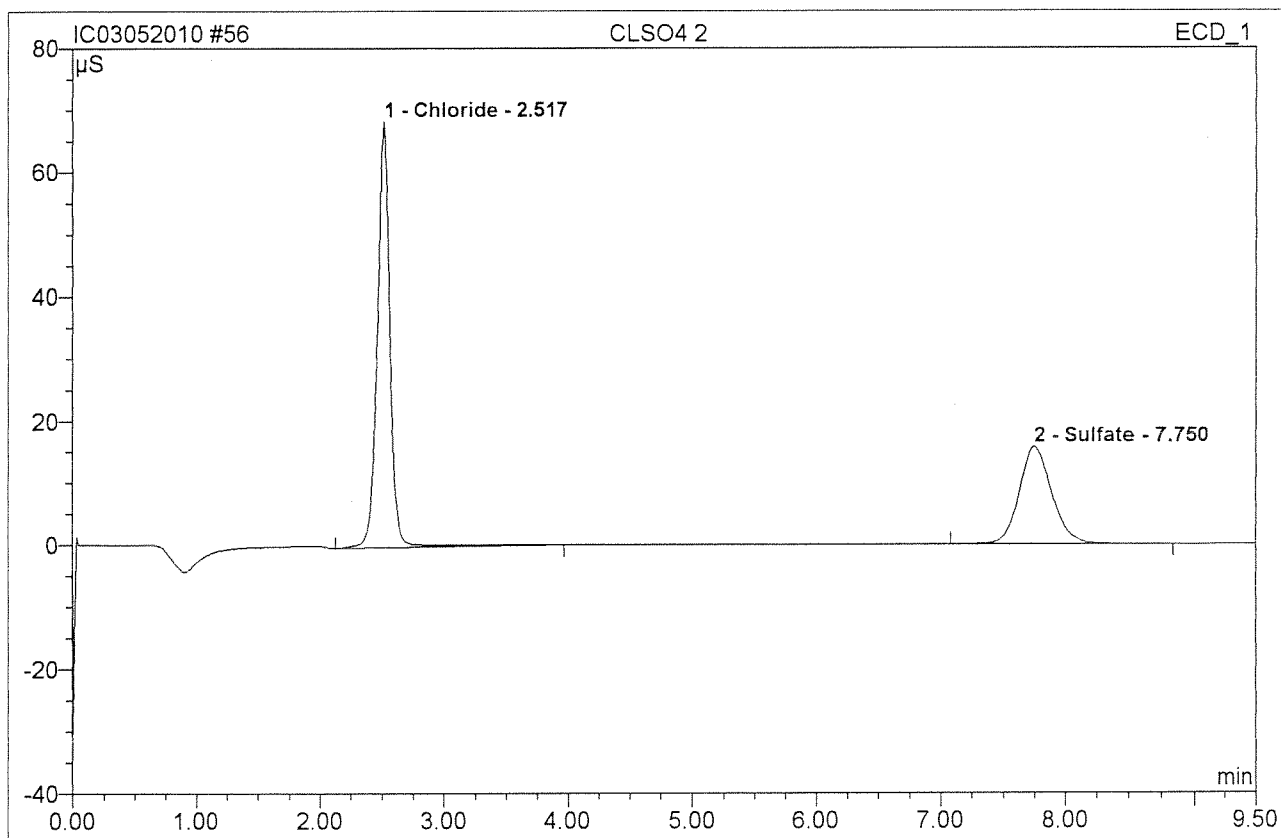
IC03052010

5/25/10



**56 CLSO4 2****CLSO4 2**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CLSO4 2         | Injection Volume: | 200.0  |
| Vial Number:     | 53              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 19:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 2.52             | Chloride  | 68.621                  | 8.218                                | 63.31          | 5.270  | BMB  |
| 2             | 7.75             | Sulfate   | 15.768                  | 4.763                                | 36.69          | 4.840  | BMB  |
| <b>Total:</b> |                  |           | 84.388                  | 12.981                               | 100.00         | 10.109 |      |

Return

MAY 21 2010

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

*6/11/10*

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

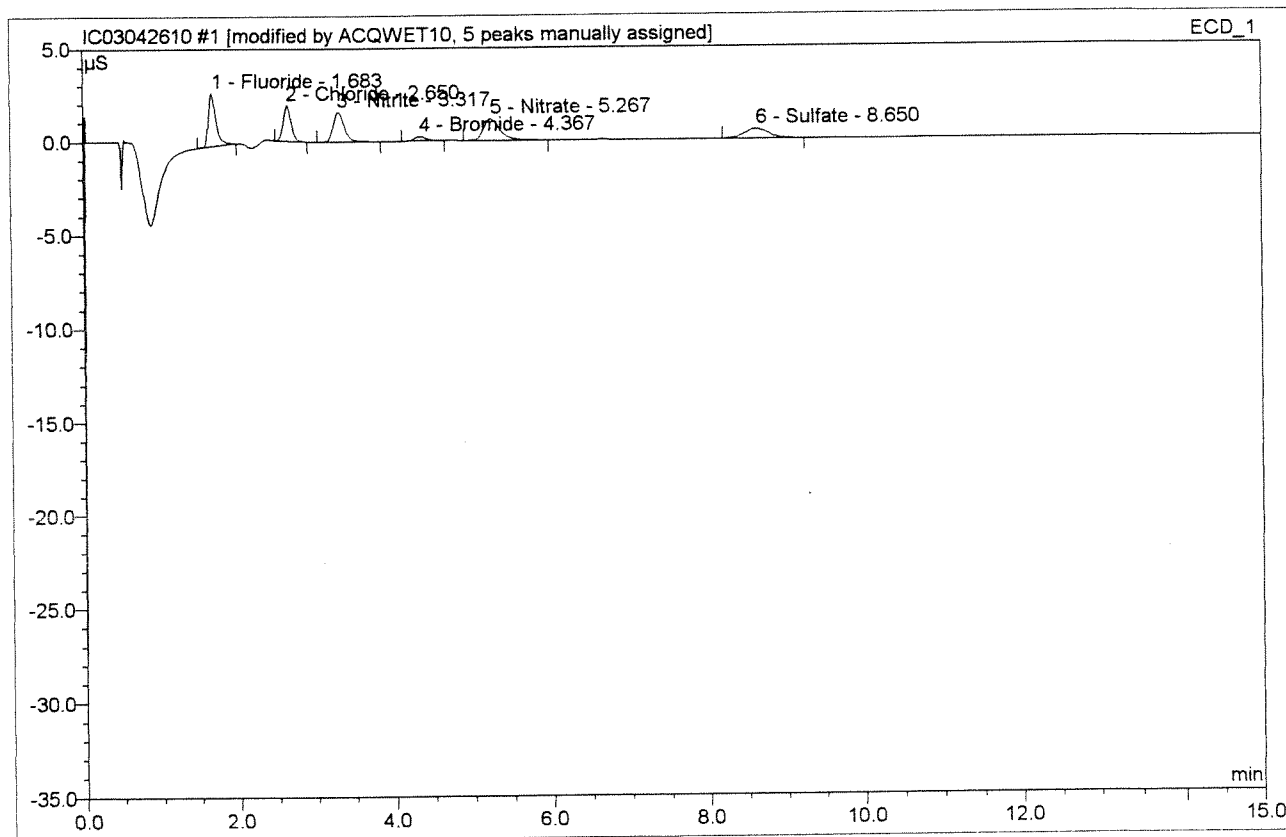
| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

6/4/10/10



|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>1 std2/lvl2</b> |                |                   |        |
| Sample Name:       | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:       | 1              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 15.00          | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height $\mu$ S | Area $\mu$ S*min | Rel. Area % | Amount | Type  |
|---------------|---------------|-----------|----------------|------------------|-------------|--------|-------|
| 1             | 1.68          | Fluoride  | 2.860          | 0.324            | 24.73       | 0.169  | BMB*  |
| 2             | 2.65          | Chloride  | 1.892          | 0.229            | 17.47       | 0.147  | BMB^  |
| 3             | 3.32          | Nitrite   | 1.586          | 0.259            | 19.78       | 0.090  | BMB^  |
| 4             | 4.37          | Bromide   | 0.244          | 0.043            | 3.25        | 0.080  | BMB*^ |
| 5             | 5.27          | Nitrate   | 1.144          | 0.279            | 21.26       | 0.076  | BMB^  |
| 6             | 8.65          | Sulfate   | 0.507          | 0.177            | 13.51       | 0.180  | BMB^  |
| <b>Total:</b> |               |           | 8.233          | 1.311            | 100.00      | 0.742  |       |

ACQWET10

5/11/10

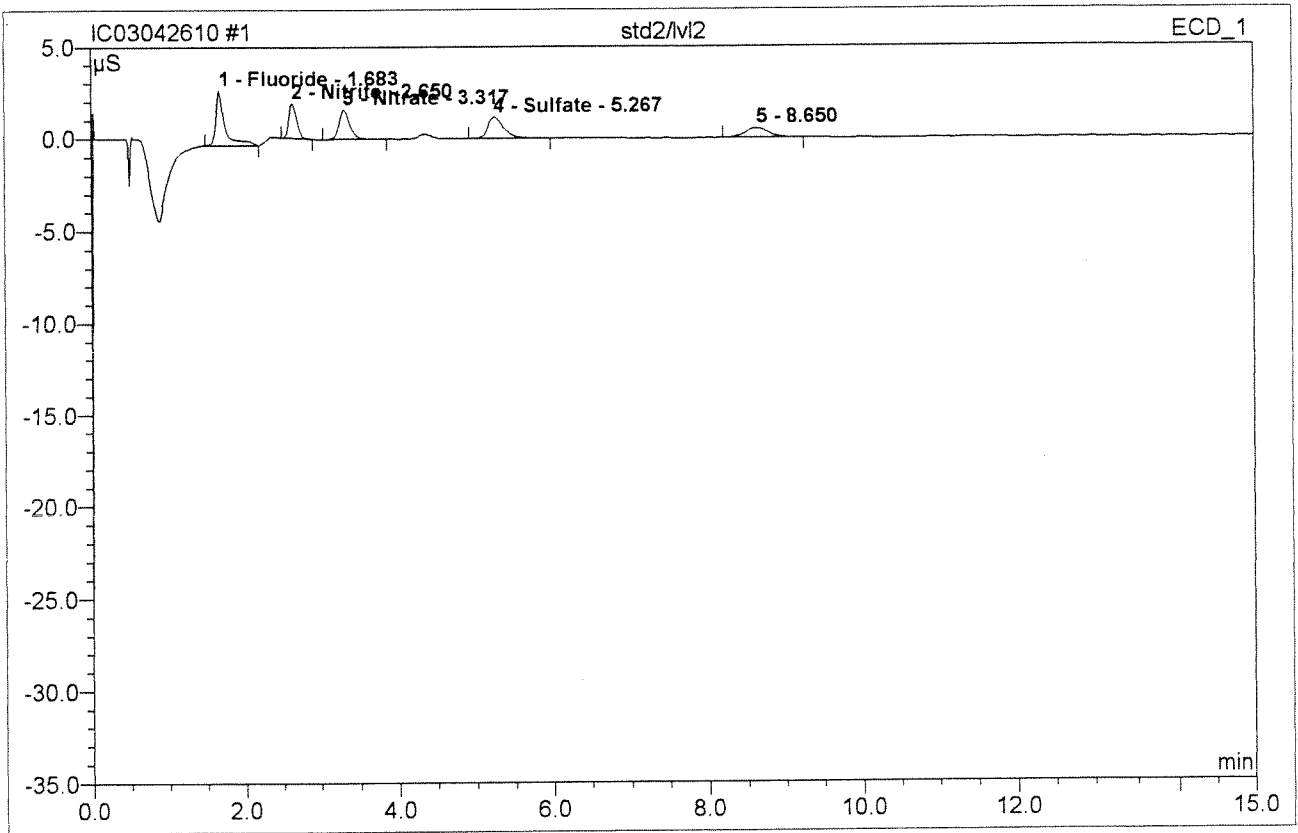
APR 25 2010

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Version 6.50 SP1 Build 956

default/Integration

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|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>1 std2/lvl2</b> |                |                   |        |
| Sample Name:       | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:       | 1              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 15.00          | Sample Amount:    | 1.0000 |

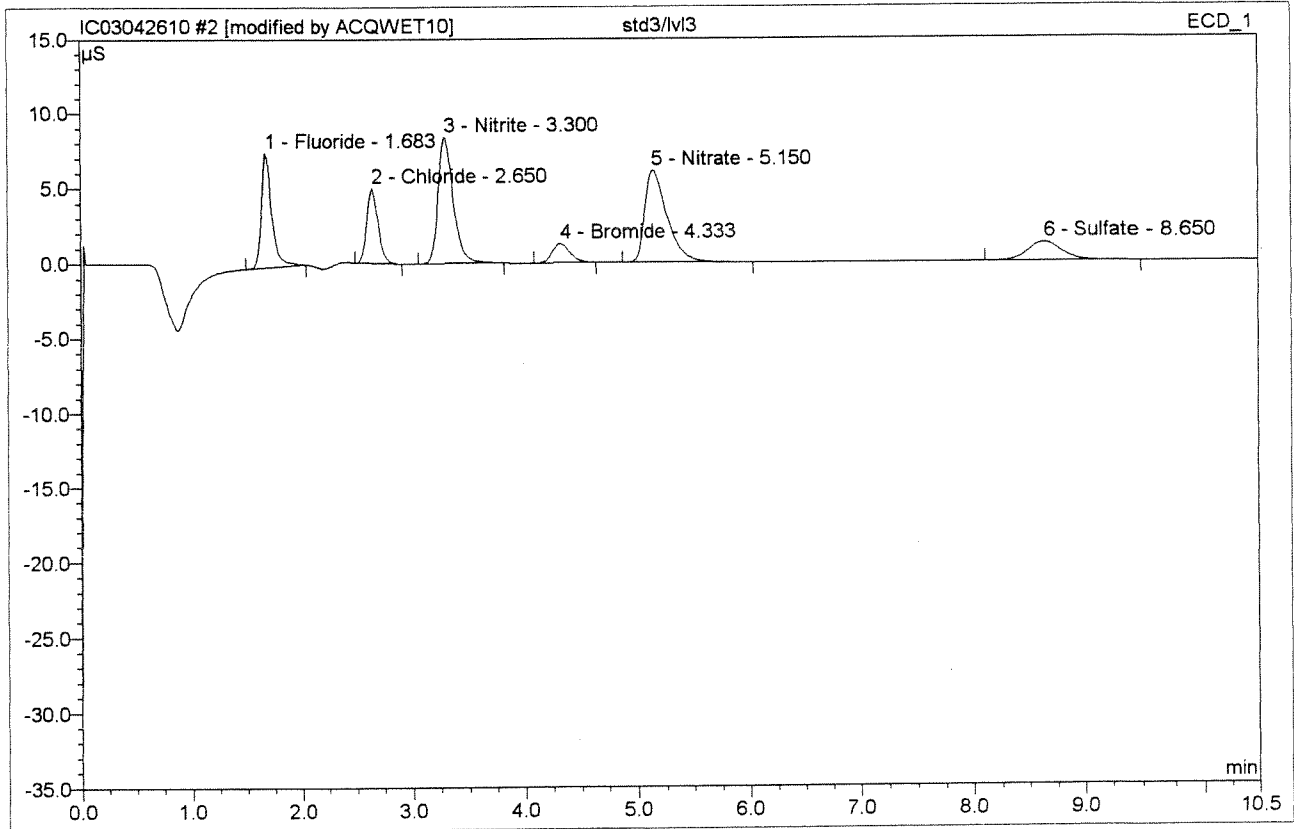


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.68             | Fluoride  | 2.953        | 0.421          | 30.83          | 0.200  | BMB  |
| 2             | 2.65             | Nitrite   | 1.892        | 0.229          | 16.78          | 0.100  | BMB  |
| 3             | 3.32             | Nitrate   | 1.586        | 0.259          | 19.00          | 0.100  | BMB  |
| 4             | 5.27             | Sulfate   | 1.144        | 0.279          | 20.42          | 0.200  | BMB  |
| 5             | 8.65             | n.a.      | 0.507        | 0.177          | 12.97          | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 8.081        | 1.366          | 100.00         | 0.600  |      |

Before

APR 26 2010

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>2 std3/lvl3</b> |                |                   |        |
| Sample Name:       | std3/lvl3      | Injection Volume: | 200.0  |
| Vial Number:       | 2              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height $\mu$ S | Area $\mu$ S*min | Rel. Area % | Amount | Type |
|---------------|---------------|-----------|----------------|------------------|-------------|--------|------|
| 1             | 1.68          | Fluoride  | 7.622          | 0.844            | 17.37       | 0.441  | BMB* |
| 2             | 2.65          | Chloride  | 4.937          | 0.589            | 12.12       | 0.378  | BMB  |
| 3             | 3.30          | Nitrite   | 8.365          | 1.329            | 27.34       | 0.460  | BMB* |
| 4             | 4.33          | Bromide   | 1.271          | 0.229            | 4.72        | 0.428  | BMB* |
| 5             | 5.15          | Nitrate   | 6.087          | 1.425            | 29.30       | 0.387  | BMB  |
| 6             | 8.65          | Sulfate   | 1.253          | 0.445            | 9.16        | 0.452  | BMB  |
| <b>Total:</b> |               |           | 29.536         | 4.862            | 100.00      | 2.547  |      |

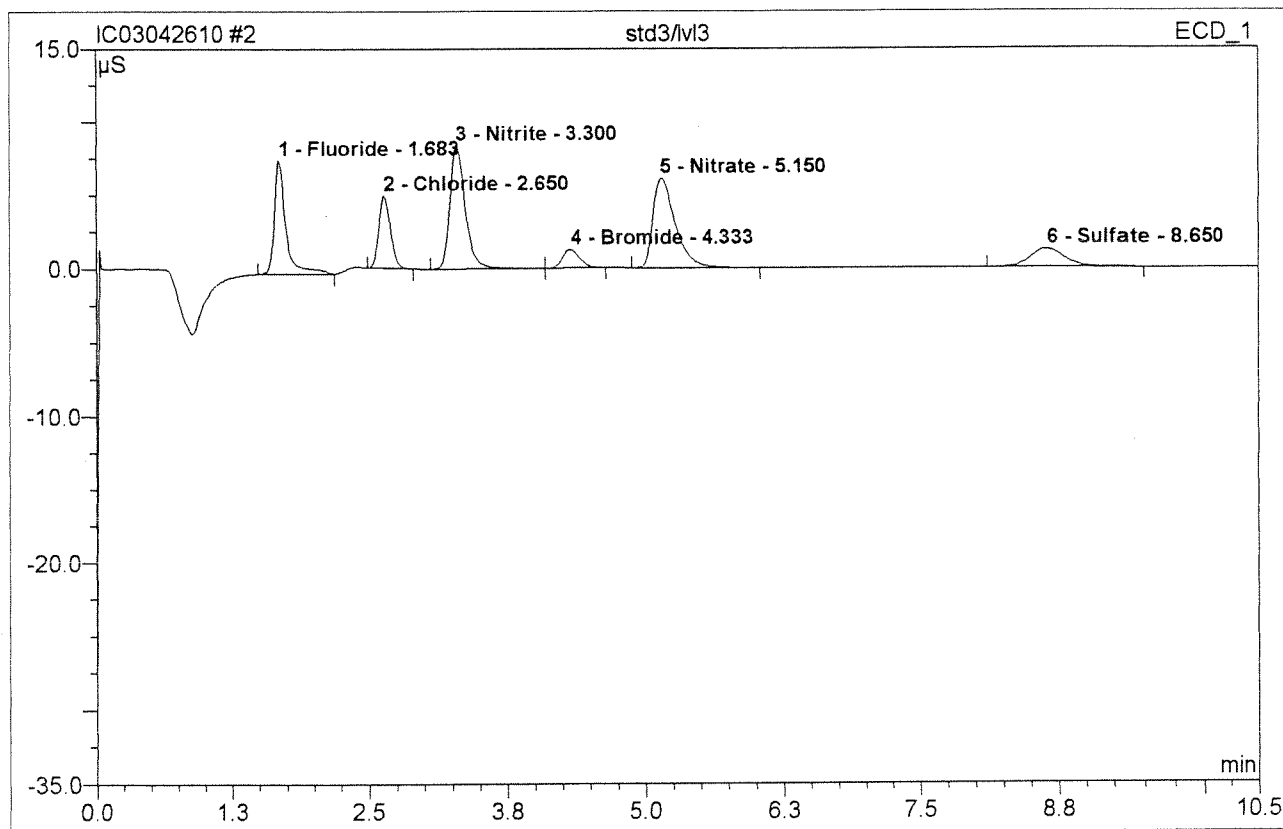
APR 26 2010  
10:35 AM  
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61-9115116



**2 std3/lvl3**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std3/lvl3      | Injection Volume: | 200.0  |
| Vial Number:     | 2              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |

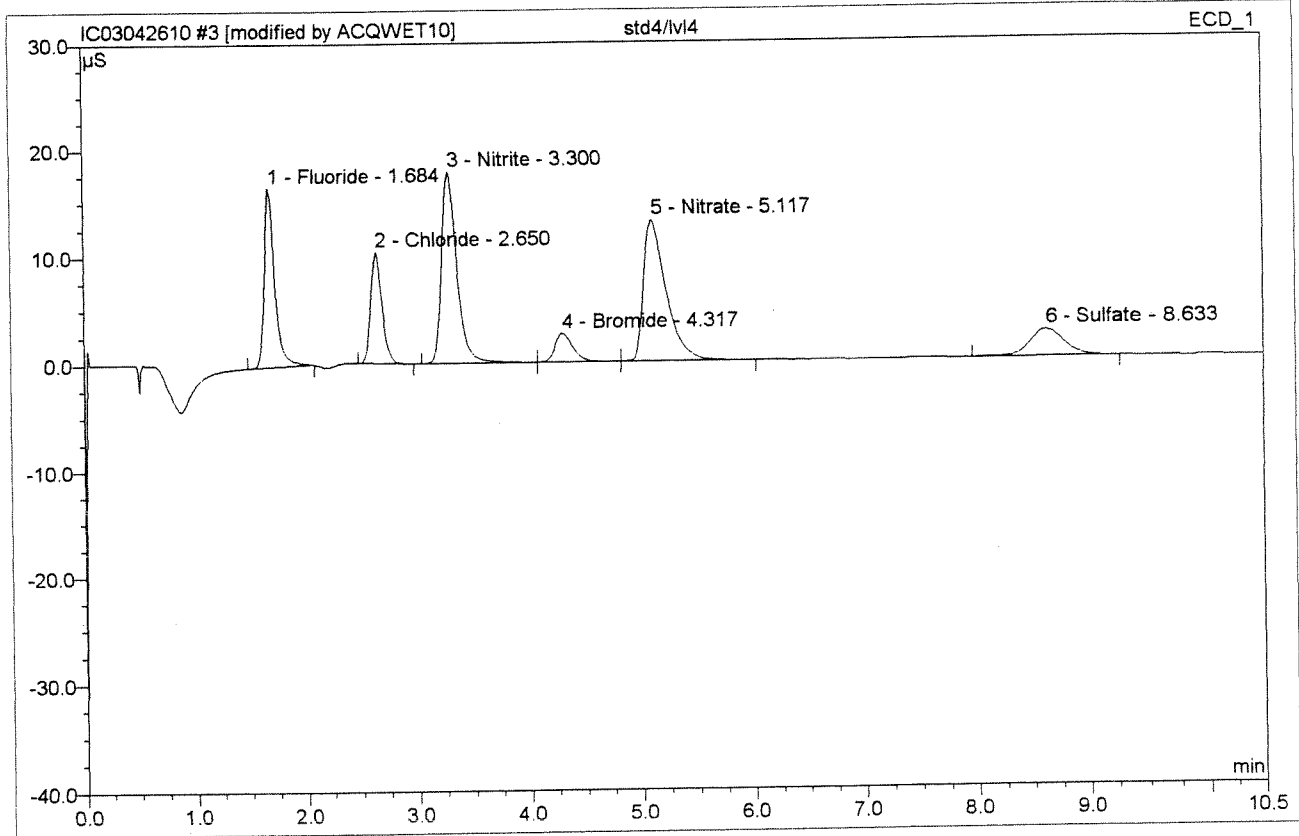


| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 7.720                   | 0.949                                | 19.04         | 0.510  | BMB  |
| 2             | 2.65            | Chloride  | 4.937                   | 0.589                                | 11.82         | 0.502  | BMB  |
| 3             | 3.30            | Nitrite   | 8.377                   | 1.347                                | 27.02         | 0.501  | BMB  |
| 4             | 4.33            | Bromide   | 1.271                   | 0.229                                | 4.60          | 0.501  | bMB  |
| 5             | 5.15            | Nitrate   | 6.087                   | 1.425                                | 28.59         | 0.500  | BMB  |
| 6             | 8.65            | Sulfate   | 1.253                   | 0.445                                | 8.93          | 0.500  | BMB  |
| <b>Total:</b> |                 |           | 29.644                  | 4.984                                | 100.00        | 3.015  |      |

Before

APR 26 2010

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>3 std4/lvl4</b> |                |                   |        |
| Sample Name:       | std4/lvl4      | Injection Volume: | 200.0  |
| Vial Number:       | 3              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



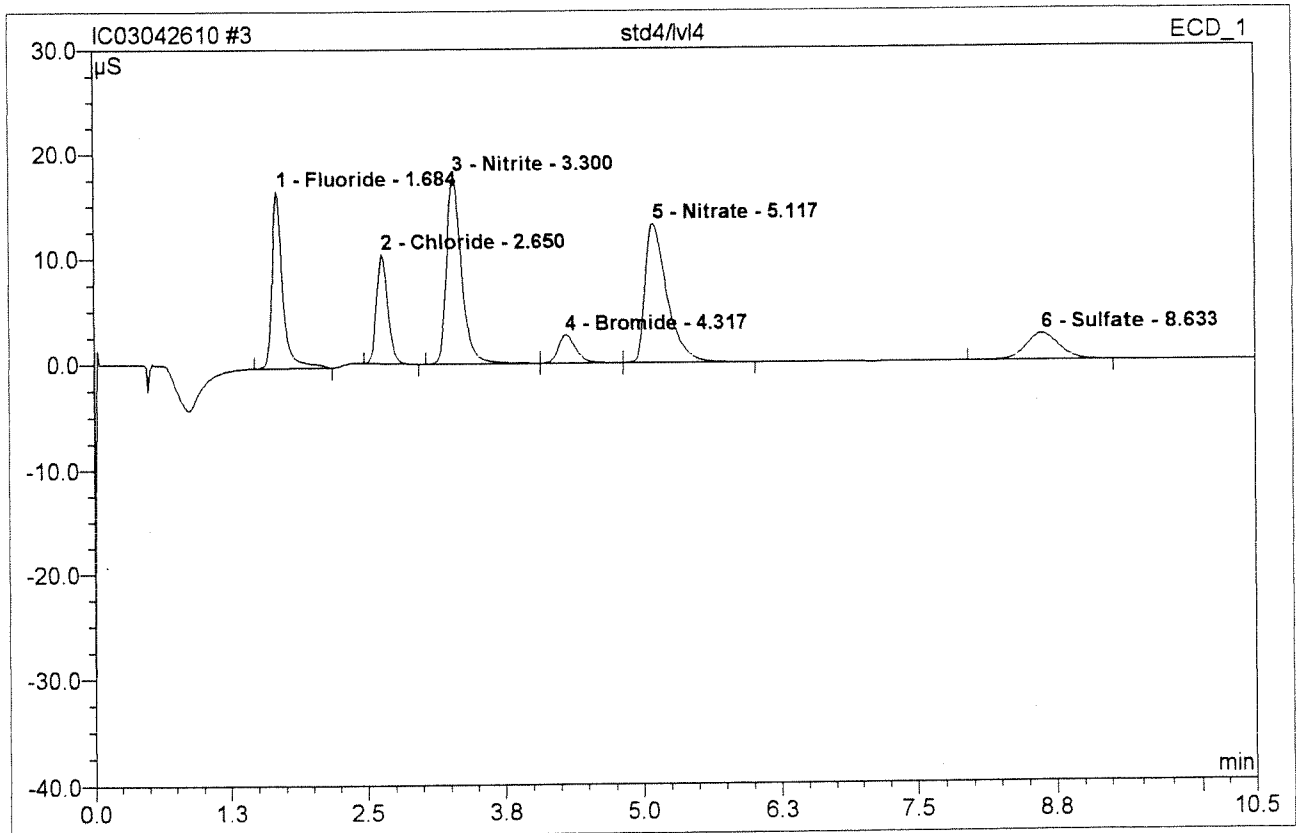
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 16.676       | 1.811          | 17.64         | 0.947  | BMB* |
| 2             | 2.65            | Chloride  | 10.365       | 1.223          | 11.91         | 0.784  | BMB  |
| 3             | 3.30            | Nitrite   | 17.874       | 2.814          | 27.40         | 0.975  | BMB  |
| 4             | 4.32            | Bromide   | 2.661        | 0.487          | 4.74          | 0.908  | bMB  |
| 5             | 5.12            | Nitrate   | 13.149       | 3.046          | 29.66         | 0.827  | bMB  |
| 6             | 8.63            | Sulfate   | 2.522        | 0.888          | 8.65          | 0.903  | BMB  |
| <b>Total:</b> |                 |           | 63.248       | 10.270         | 100.00        | 5.343  |      |

APC  
Nitrite *MB*

*61-4128110*

APR 26 2010

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>3 std4/lvl4</b> |                |                   |        |
| Sample Name:       | std4/lvl4      | Injection Volume: | 200.0  |
| Vial Number:       | 3              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



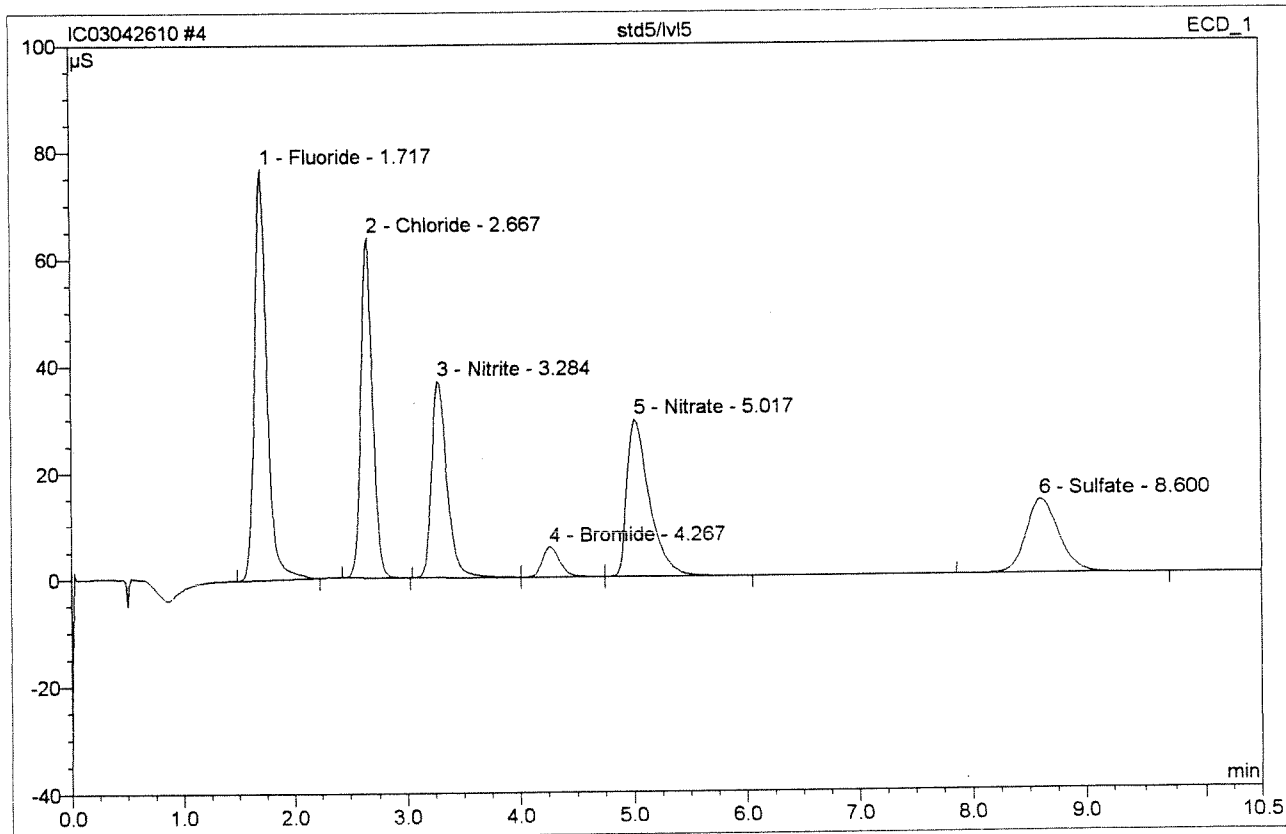
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 16.774       | 1.915          | 18.46         | 1.007  | BMB  |
| 2             | 2.65            | Chloride  | 10.365       | 1.223          | 11.79         | 1.009  | BMB  |
| 3             | 3.30            | Nitrite   | 17.874       | 2.814          | 27.13         | 1.009  | BMb  |
| 4             | 4.32            | Bromide   | 2.661        | 0.487          | 4.69          | 1.012  | bMb  |
| 5             | 5.12            | Nitrate   | 13.149       | 3.046          | 29.36         | 1.014  | bMB  |
| 6             | 8.63            | Sulfate   | 2.522        | 0.888          | 8.56          | 1.000  | BMB  |
| <b>Total:</b> |                 |           | 63.346       | 10.374         | 100.00        | 6.051  |      |

Before

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### 4 std5/lvl5

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lvl5      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.086  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 4.791  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.030  | BMB  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 1.879  | bMB  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 1.833  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 4.795  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 20.415 |      |

Alter Initials *(Signature)*

4-11-10

default/Integration

APR 26 2010

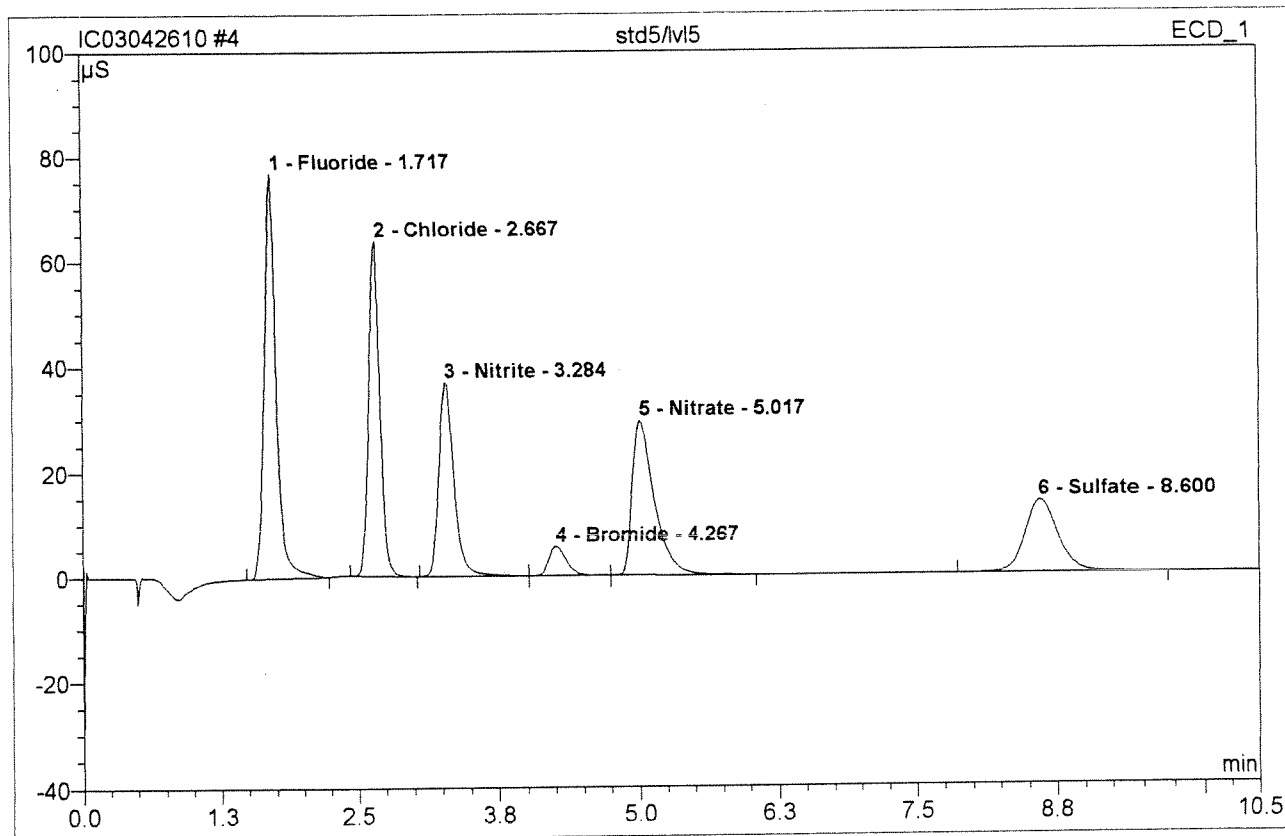
Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956  
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### 4 std5/lvl5

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lvl5      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



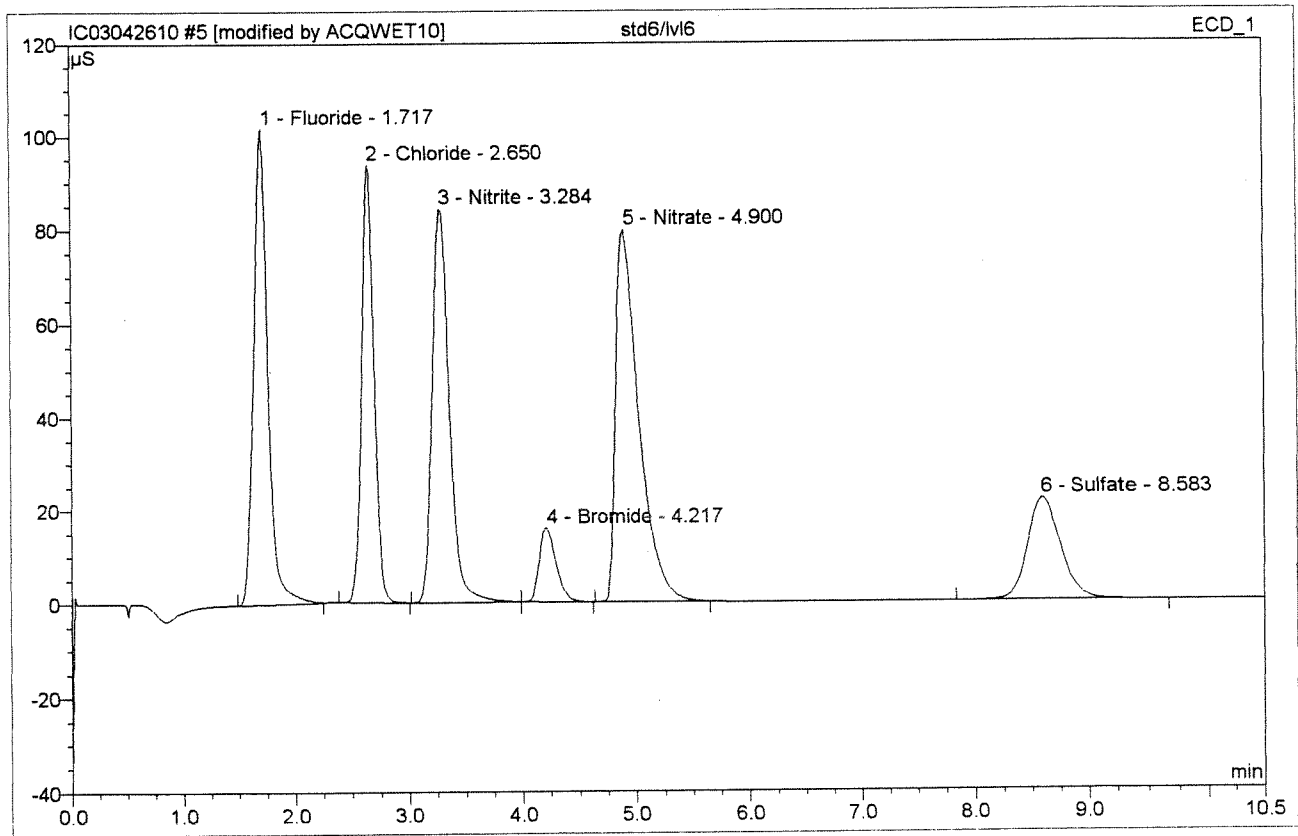
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.005  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 5.047  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.024  | BMB  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 2.022  | bMB  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 2.054  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 5.014  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 21.166 |      |

Before

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Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>5 std6/lvl6</b> |                |                   |        |
| Sample Name:       | std6/lvl6      | Injection Volume: | 200.0  |
| Vial Number:       | 5              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:51 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 101.686                 | 14.494                               | 20.88         | 7.575  | BMB* |
| 2             | 2.65            | Chloride  | 93.434                  | 11.601                               | 16.71         | 7.439  | BMB* |
| 3             | 3.28            | Nitrite   | 84.060                  | 14.428                               | 20.79         | 4.997  | BMB  |
| 4             | 4.22            | Bromide   | 15.785                  | 2.719                                | 3.92          | 5.074  | bMB  |
| 5             | 4.90            | Nitrate   | 79.649                  | 18.837                               | 27.14         | 5.113  | BMB* |
| 6             | 8.58            | Sulfate   | 21.861                  | 7.333                                | 10.56         | 7.452  | BMB  |
| <b>Total:</b> |                 |           | 396.475                 | 69.412                               | 100.00        | 37.650 |      |

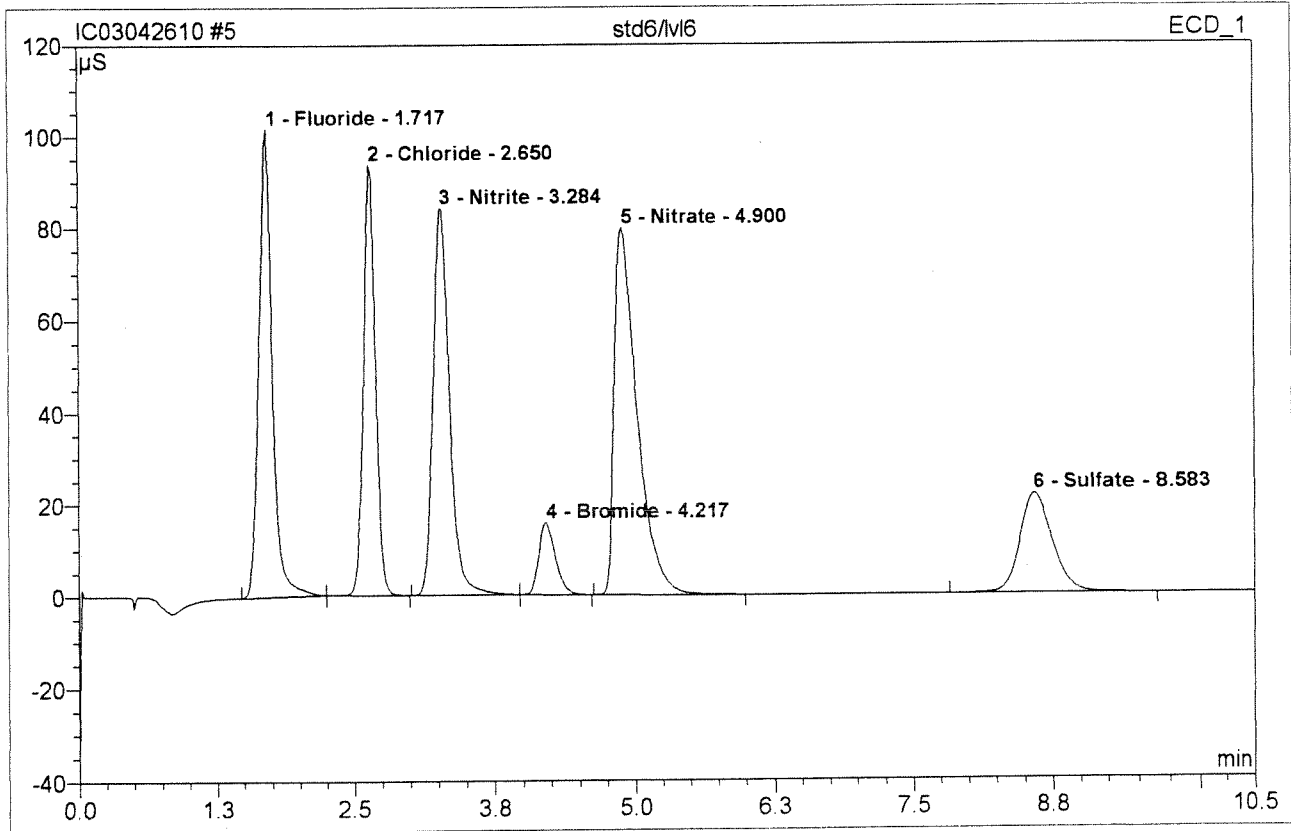
APR 26 2010  
MB

APR 26 2010

6-11-10

**5 std6/lvl6**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std6/lvl6      | Injection Volume: | 200.0  |
| Vial Number:     | 5              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:51 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



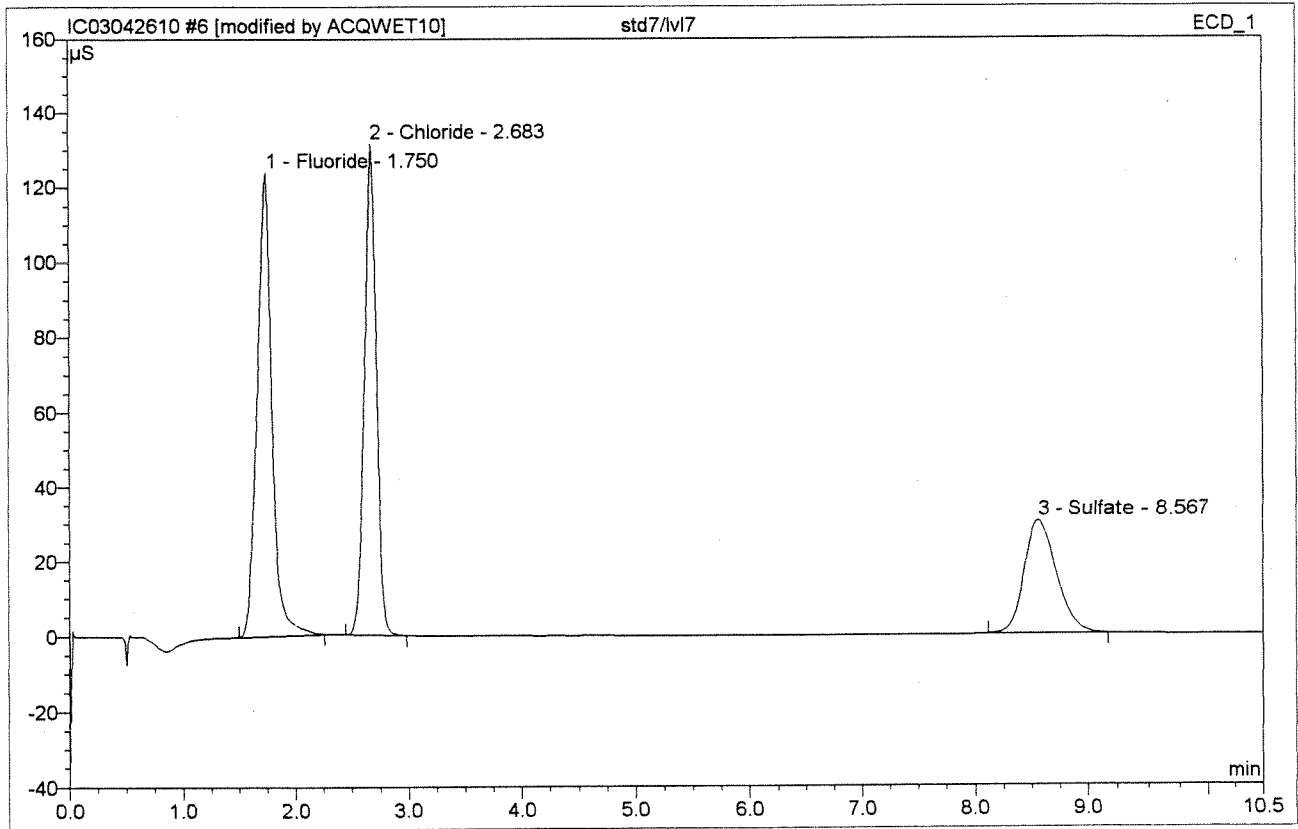
| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 101.686                 | 14.494                               | 20.85         | 7.486  | BMB  |
| 2             | 2.65            | Chloride  | 93.503                  | 11.647                               | 16.75         | 7.613  | bMB  |
| 3             | 3.28            | Nitrite   | 84.060                  | 14.428                               | 20.76         | 4.997  | BMB  |
| 4             | 4.22            | Bromide   | 15.785                  | 2.719                                | 3.91          | 5.074  | bMB  |
| 5             | 4.90            | Nitrate   | 79.672                  | 18.892                               | 27.18         | 5.115  | BMB  |
| 6             | 8.58            | Sulfate   | 21.861                  | 7.333                                | 10.55         | 7.591  | BMB  |
| <b>Total:</b> |                 |           | 396.568                 | 69.512                               | 100.00        | 37.876 |      |

Before

APR 26 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lvl7</b> |                 |                   |        |
| Sample Name:       | std7/lvl7       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.75            | Fluoride  | 123.905      | 18.962         | 42.30         | 9.910  | BMB* |
| 2             | 2.68            | Chloride  | 131.265      | 15.874         | 35.41         | 10.179 | BMB* |
| 3             | 8.57            | Sulfate   | 30.278       | 9.990          | 22.29         | 10.151 | BMB* |
| <b>Total:</b> |                 |           | 285.448      | 44.826         | 100.00        | 30.240 |      |

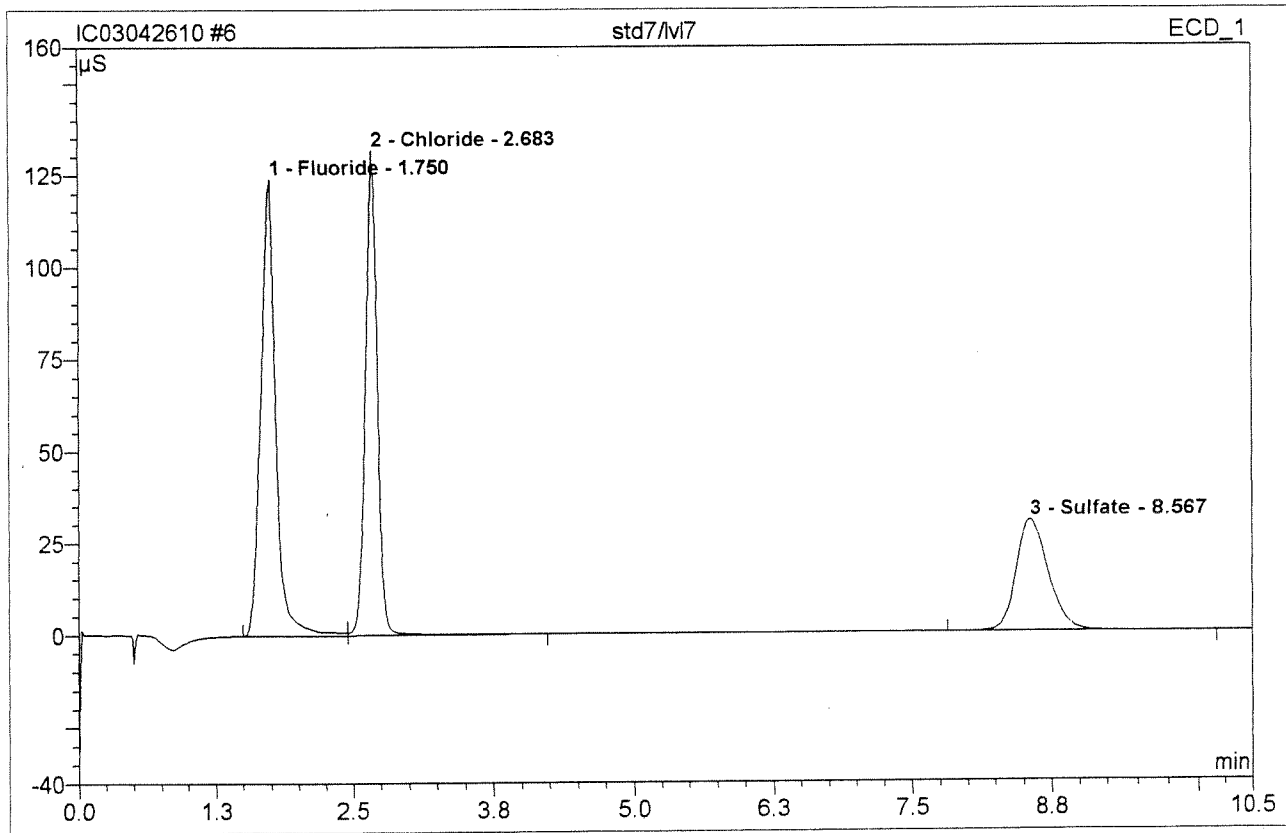
For Analysts MS

5-9133/10

APR 26 2010



|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lv17</b> |                 |                   |        |
| Sample Name:       | std7/lv17       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |

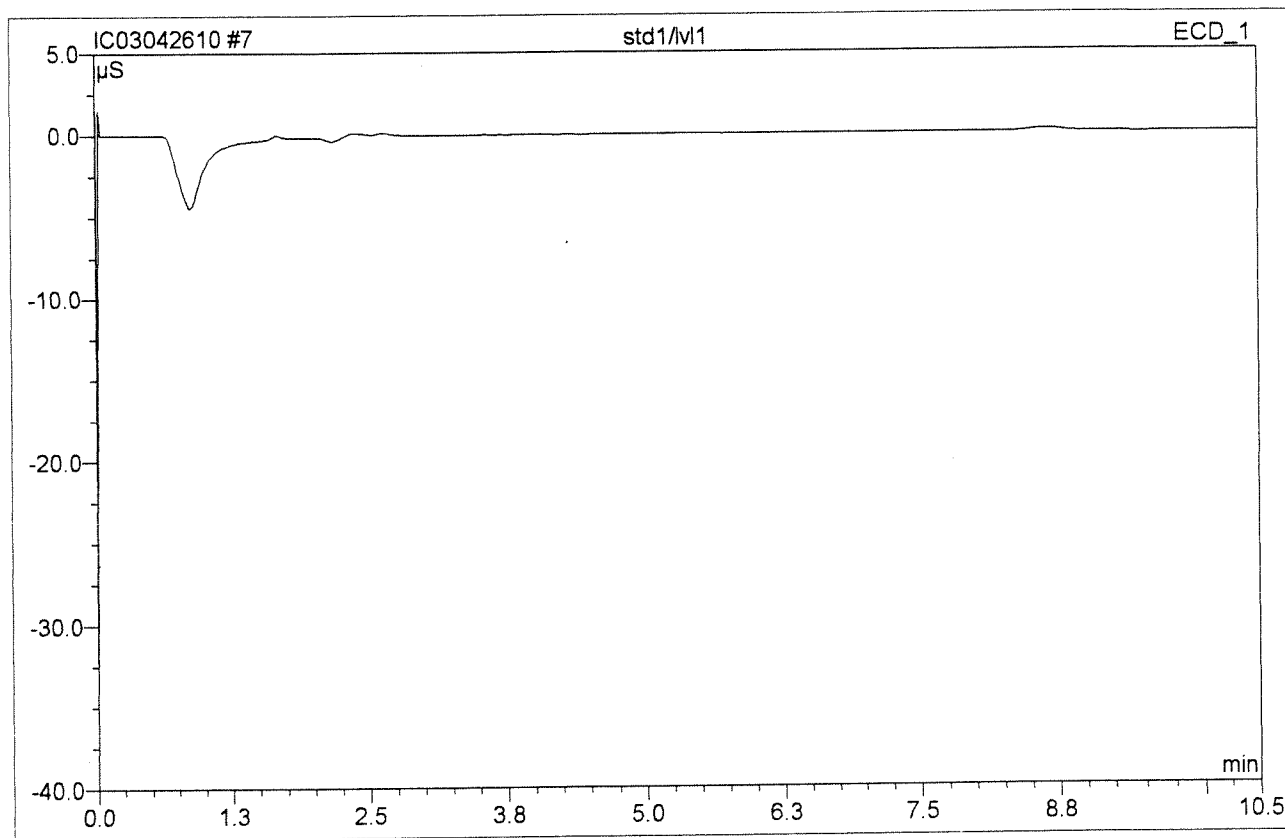


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.75             | Fluoride  | 124.185      | 19.437         | 42.28          | 10.022 | BM   |
| 2             | 2.68             | Chloride  | 131.836      | 16.307         | 35.47          | 10.300 | MB   |
| 3             | 8.57             | Sulfate   | 30.454       | 10.233         | 22.26          | 10.259 | BMB  |
| <b>Total:</b> |                  |           | 286.475      | 45.977         | 100.00         | 30.581 |      |

Before

APR 26 2010

| 7 std1/lv11      |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | std1/lv11       | Injection Volume: | 200.0  |
| Vial Number:     | 7               | Channel:          | ECD_1  |
| Sample Type:     | standard        | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 10:17 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |

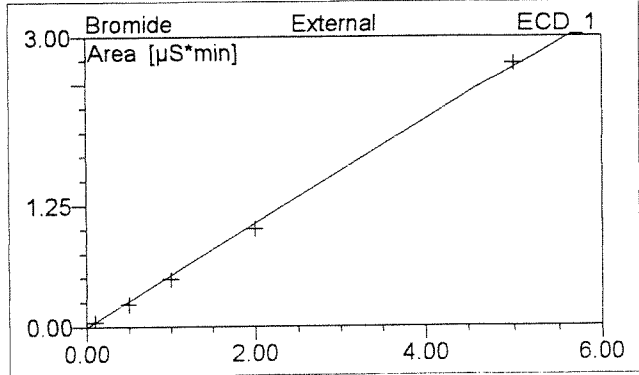
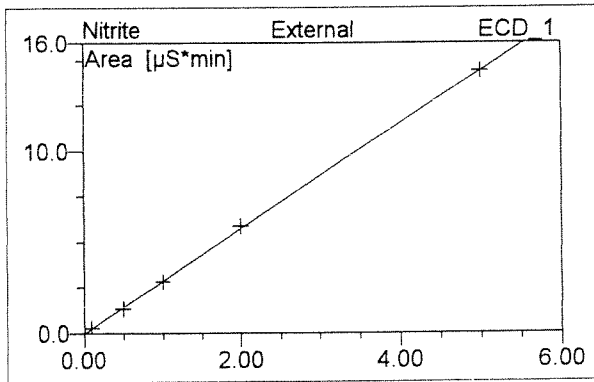
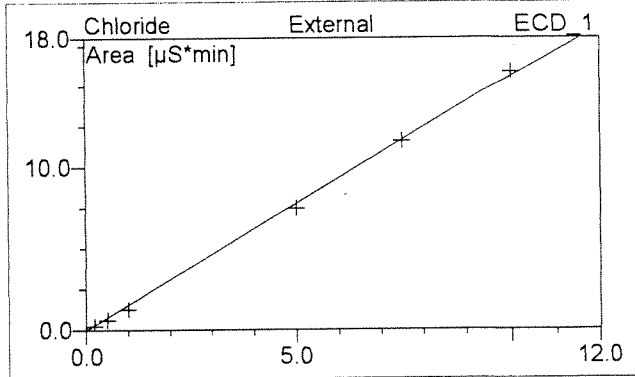
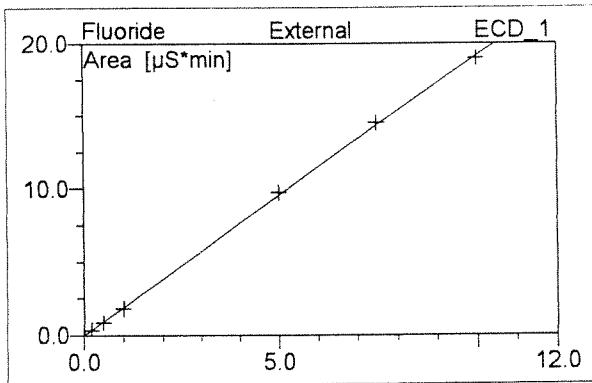


| No.    | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| Total: |                  |           | 0.000                   | 0.000                                | 0.00           | 0.000  |      |

BACHTIA

**7 std1/lvl1**

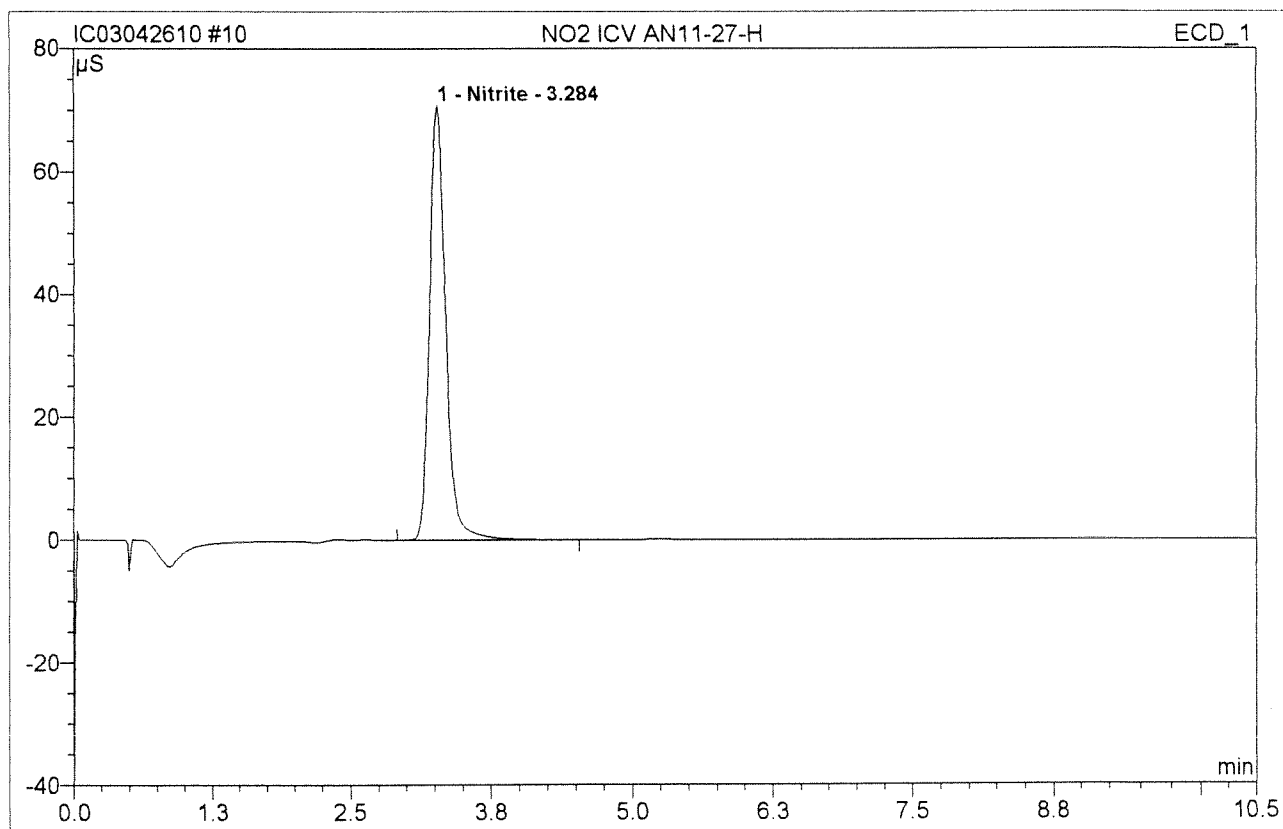
|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | std1/lvl1       | Injection Volume: | 200.0  |
| Vial Number:     | 7               | Channel:          | ECD_1  |
| Sample Type:     | standard        | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 10:17 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



| No.      | Ret. Time<br>min | Peak Name | Cal. Type | Points | Corr. Coeff.<br>% | Offset | Slope | Curve |
|----------|------------------|-----------|-----------|--------|-------------------|--------|-------|-------|
| Average: |                  |           |           |        | n.a.              | n.a.   | n.a.  | n.a.  |

*b1-4136*

| 10 NO2 ICV AN11-27-H |                   |                   |         |
|----------------------|-------------------|-------------------|---------|
| NO2 ICV              |                   |                   |         |
| Sample Name:         | NO2 ICV AN11-27-H | Injection Volume: | 200.0   |
| Vial Number:         | 10                | Channel:          | ECD_1   |
| Sample Type:         | unknown           | Wavelength:       | n.a.    |
| Control Program:     | epa300            | Bandwidth:        | n.a.    |
| Quantif. Method:     | epa300            | Dilution Factor:  | 25.0000 |
| Recording Time:      | 4/26/2010 11:05   | Sample Weight:    | 1.0000  |
| Run Time (min):      | 10.50             | Sample Amount:    | 1.0000  |



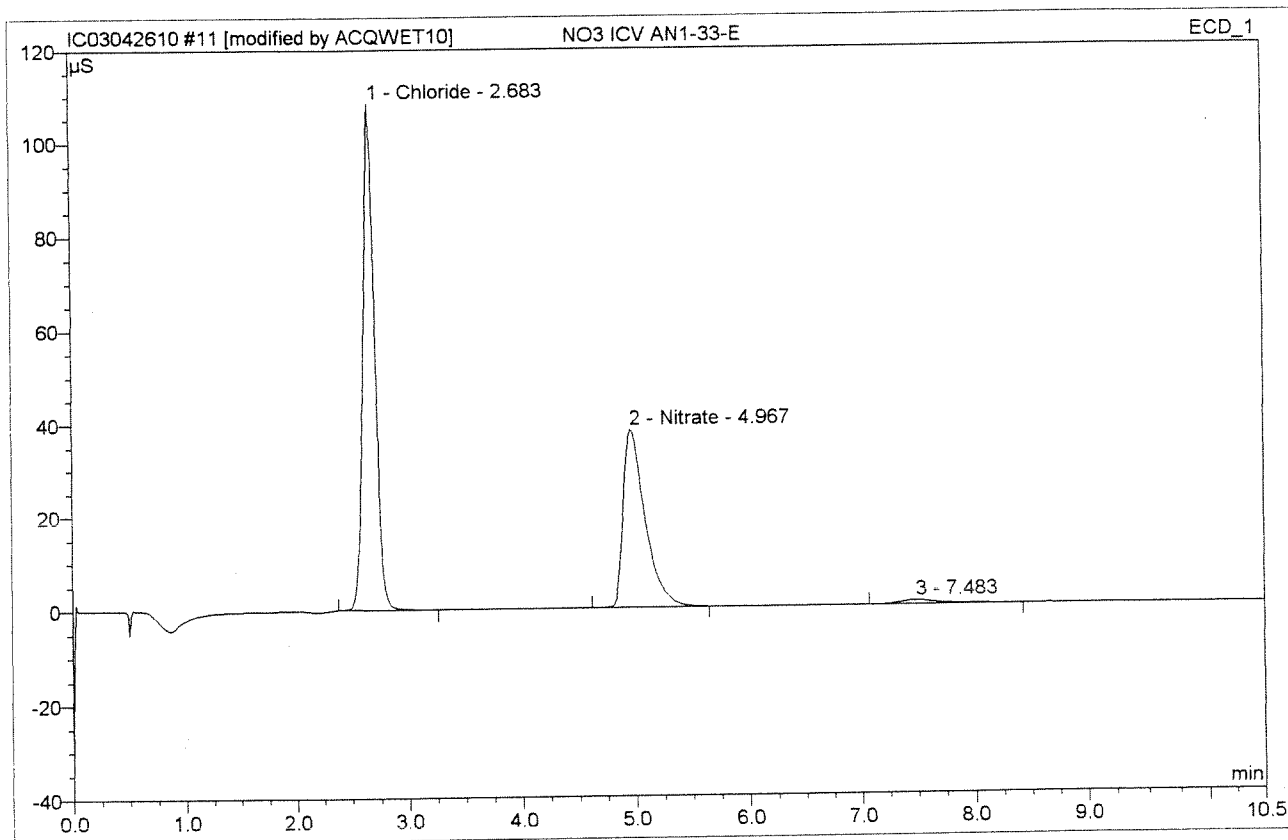
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount                  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|-------------------------|------|
| 1             | 3.28             | Nitrite   | 70.856       | 11.827         | 100.00         | 102.405 <sub>1022</sub> | BMB  |
| <b>Total:</b> |                  |           | 70.856       | 11.827         | 100.00         | 102.405                 |      |



# 11 NO3 ICV AN1-33-E

## NO3 ICV

|                  |                  |                   |         |
|------------------|------------------|-------------------|---------|
| Sample Name:     | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:     | 11               | Channel:          | ECD_1   |
| Sample Type:     | unknown          | Wavelength:       | n.a.    |
| Control Program: | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:  | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):  | 10.50            | Sample Amount:    | 1.0000  |

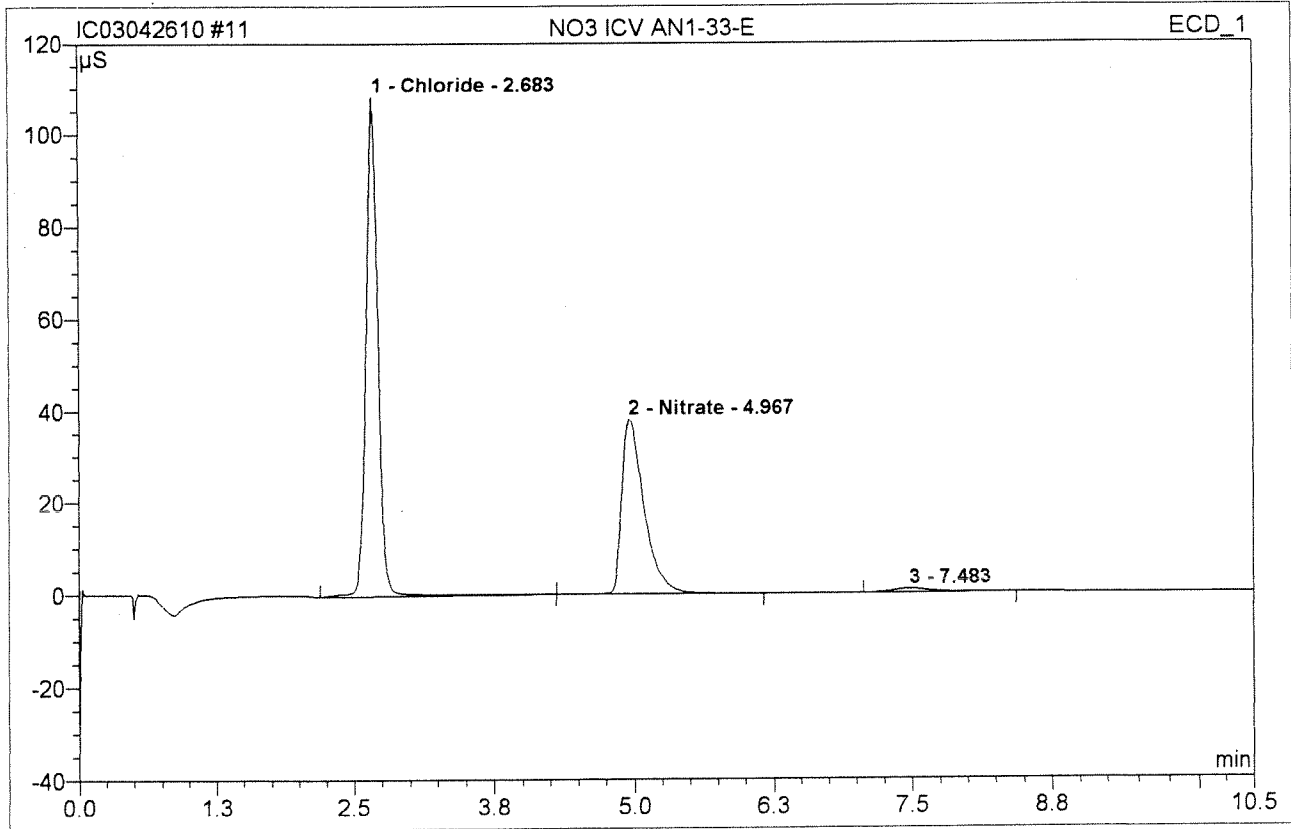


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount    | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------|------|
| 1             | 2.68            | Chloride  | 108.172      | 12.864         | 59.17         | 82.484    | BMB* |
| 2             | 4.97            | Nitrate   | 38.103       | 8.551          | 39.33         | 23.21110% | BMB* |
| 3             | 7.48            | n.a.      | 0.823        | 0.326          | 1.50          | n.a.      | BMB  |
| <b>Total:</b> |                 |           | 147.098      | 21.741         | 100.00        | 105.695   |      |

# 11 NO3 ICV AN1-33-E

## NO3 ICV

|                  |                  |                   |         |
|------------------|------------------|-------------------|---------|
| Sample Name:     | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:     | 11               | Channel:          | ECD_1   |
| Sample Type:     | unknown          | Wavelength:       | n.a.    |
| Control Program: | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:  | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):  | 10.50            | Sample Amount:    | 1.0000  |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.68             | Chloride  | 108.576      | 13.345         | 59.83          | 85.571  | BMB  |
| 2             | 4.97             | Nitrate   | 38.156       | 8.633          | 38.70          | 23.433  | bMB  |
| 3             | 7.48             | n.a.      | 0.823        | 0.326          | 1.46           | n.a.    | BMB  |
| <b>Total:</b> |                  |           | 147.556      | 22.304         | 100.00         | 109.004 |      |

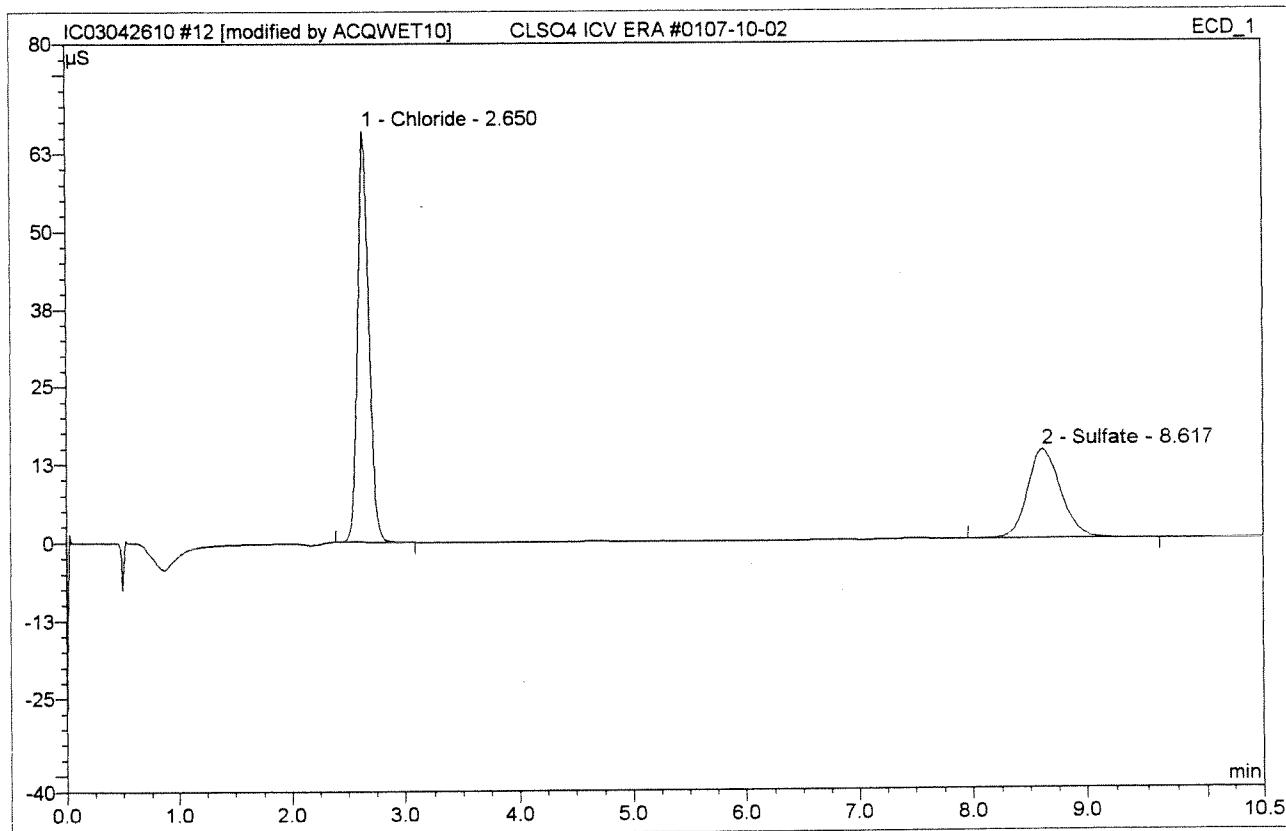
Before

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## 12 CLSO4 ICV ERA #0107-10-02

### CLSO4 ICV

|                  |                           |                   |        |
|------------------|---------------------------|-------------------|--------|
| Sample Name:     | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                        | Channel:          | ECD_1  |
| Sample Type:     | unknown                   | Wavelength:       | n.a.   |
| Control Program: | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount   | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|---------------|----------|------|
| 1             | 2.65             | Chloride  | 65.962                  | 7.498                                | 61.00         | 4.808962 | BMB* |
| 2             | 8.62             | Sulfate   | 14.257                  | 4.794                                | 39.00         | 4.871972 | BMB  |
| <b>Total:</b> |                  |           | 80.219                  | 12.292                               | 100.00        | 9.679    |      |

After initials

MB

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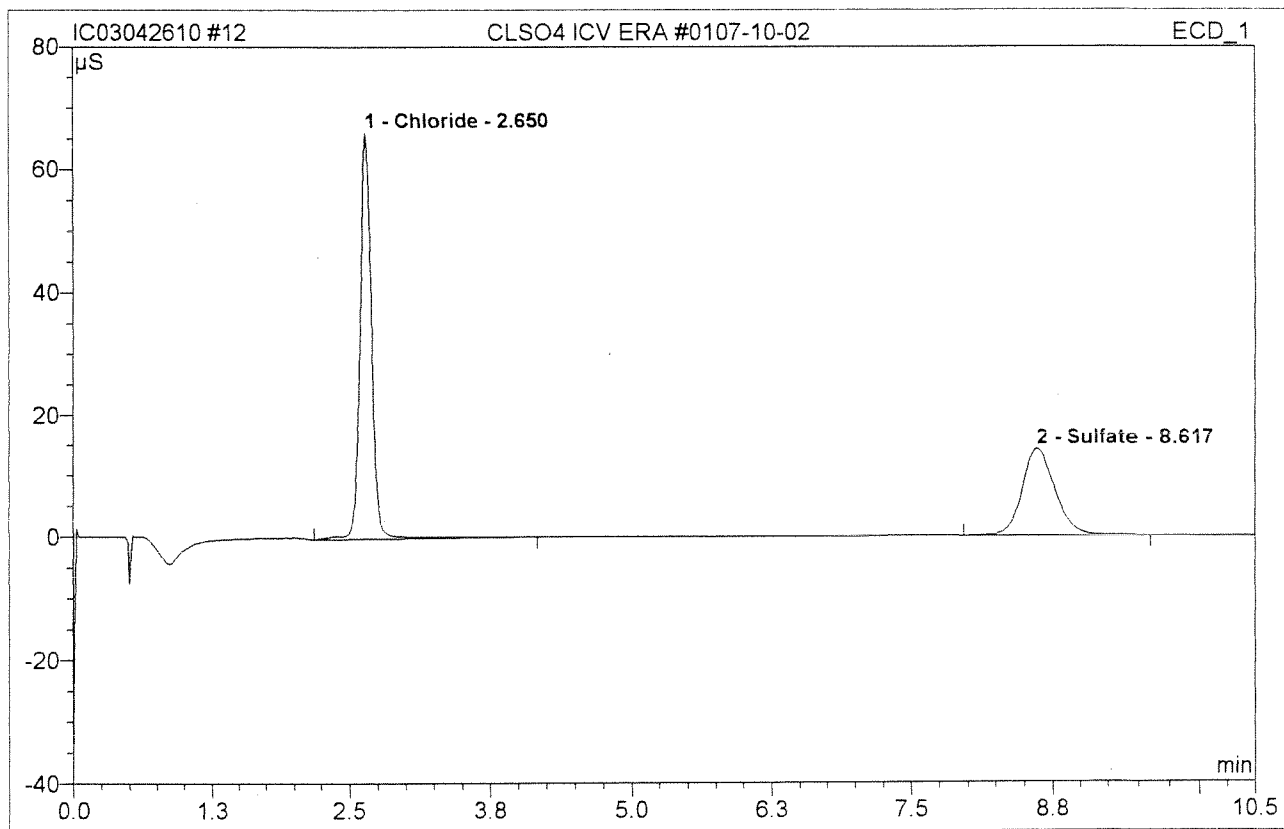
Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/Integration

7:00 AM 4/26/2010

123

|                                     |                           |                   |        |
|-------------------------------------|---------------------------|-------------------|--------|
| <b>12 CLSO4 ICV ERA #0107-10-02</b> |                           |                   |        |
| <b>CLSO4 ICV</b>                    |                           |                   |        |
| Sample Name:                        | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:                        | 12                        | Channel:          | ECD_1  |
| Sample Type:                        | unknown                   | Wavelength:       | n.a.   |
| Control Program:                    | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method:                    | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:                     | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):                     | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.65            | Chloride  | 66.369       | 7.929          | 62.32         | 5.084  | BMB  |
| 2             | 8.62            | Sulfate   | 14.257       | 4.794          | 37.68         | 4.871  | BMB  |
| <b>Total:</b> |                 |           | 80.625       | 12.723         | 100.00        | 9.956  |      |

Before

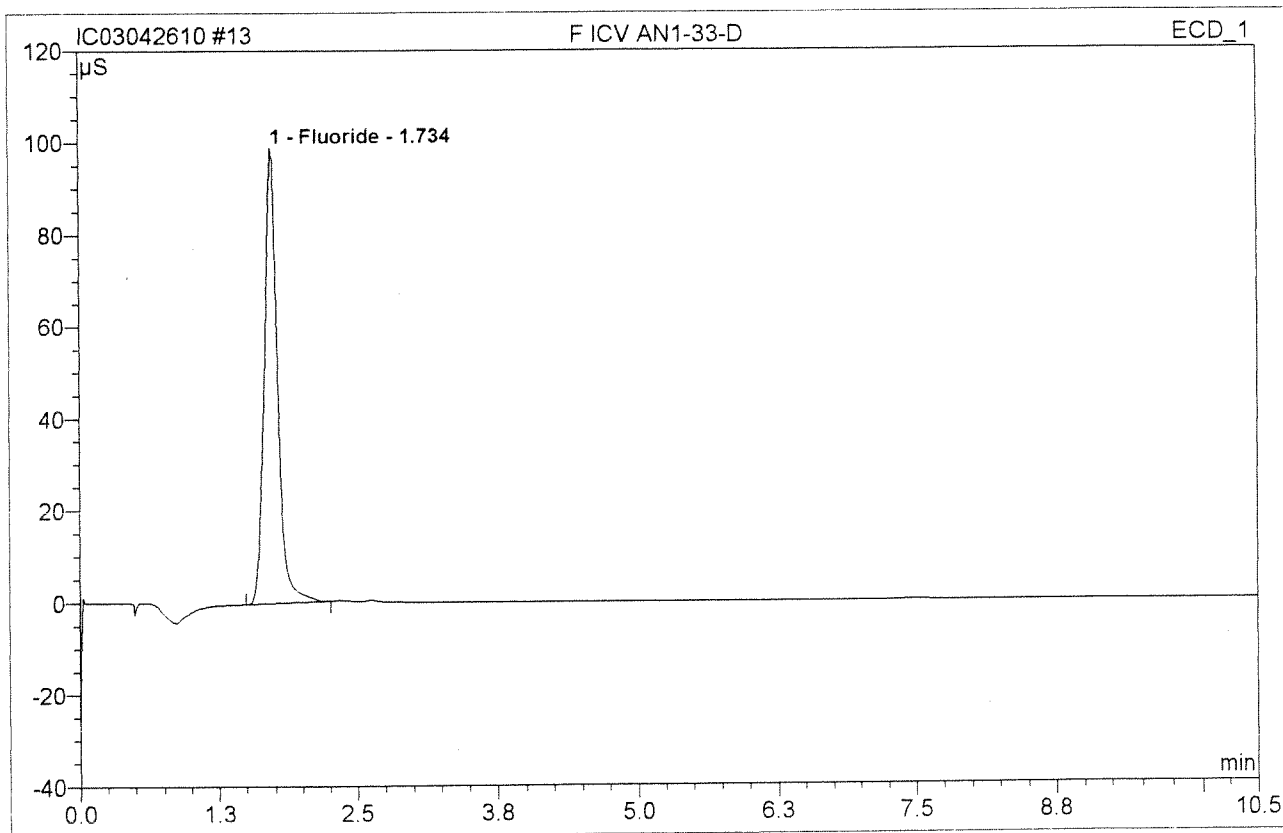
APR 26 2010



### 13 F ICV AN1-33-D

#### F ICV

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | F ICV AN1-33-D  | Injection Volume: | 200.0  |
| Vial Number:     | 13              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 4/26/2010 11:43 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |

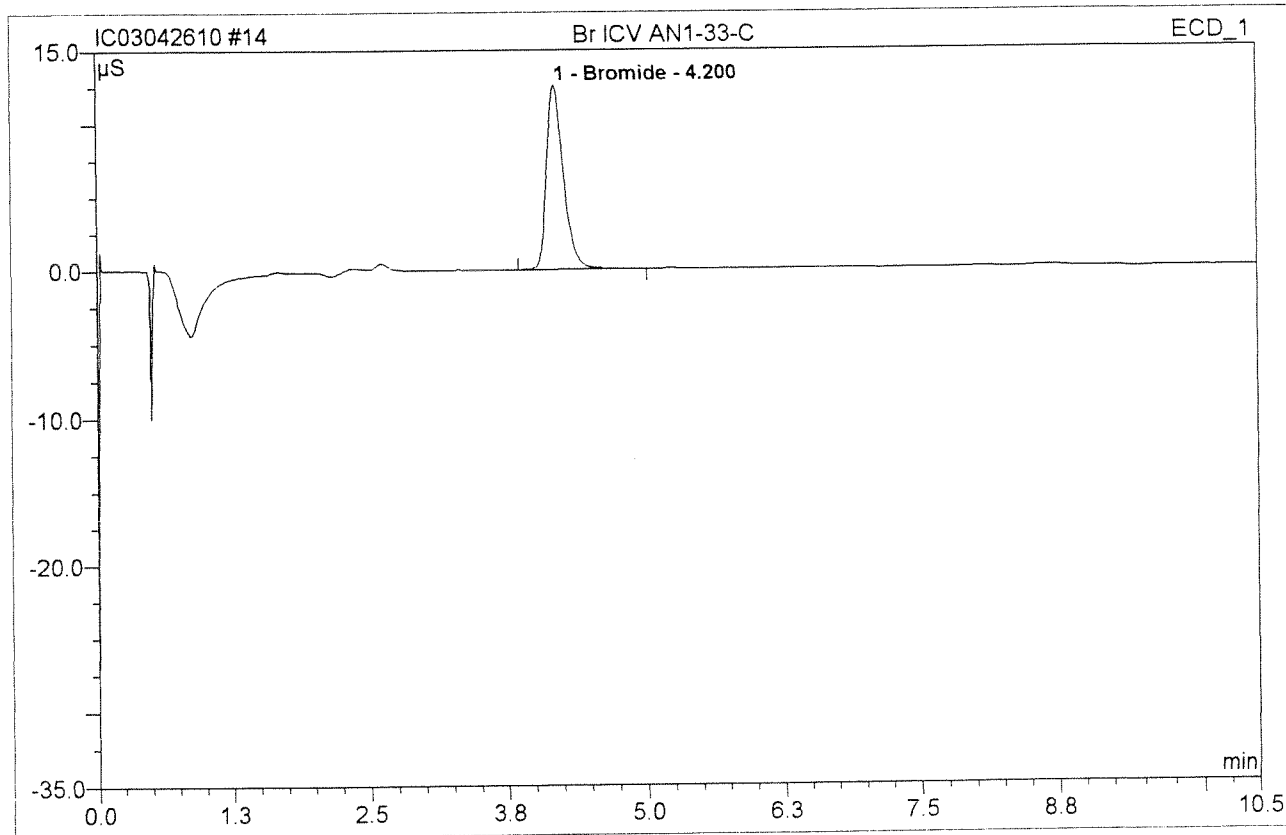


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount                 | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|------------------------|------|
| 1             | 1.73             | Fluoride  | 98.959       | 13.315         | 100.00         | 13.917 <sup>1e3?</sup> | BMB  |
| <b>Total:</b> |                  |           | 98.959       | 13.315         | 100.00         | 13.917                 |      |

### 14 Br ICV AN1-33-C

#### Br ICV

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | Br ICV AN1-33-C | Injection Volume: | 200.0  |
| Vial Number:     | 14              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:56 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |

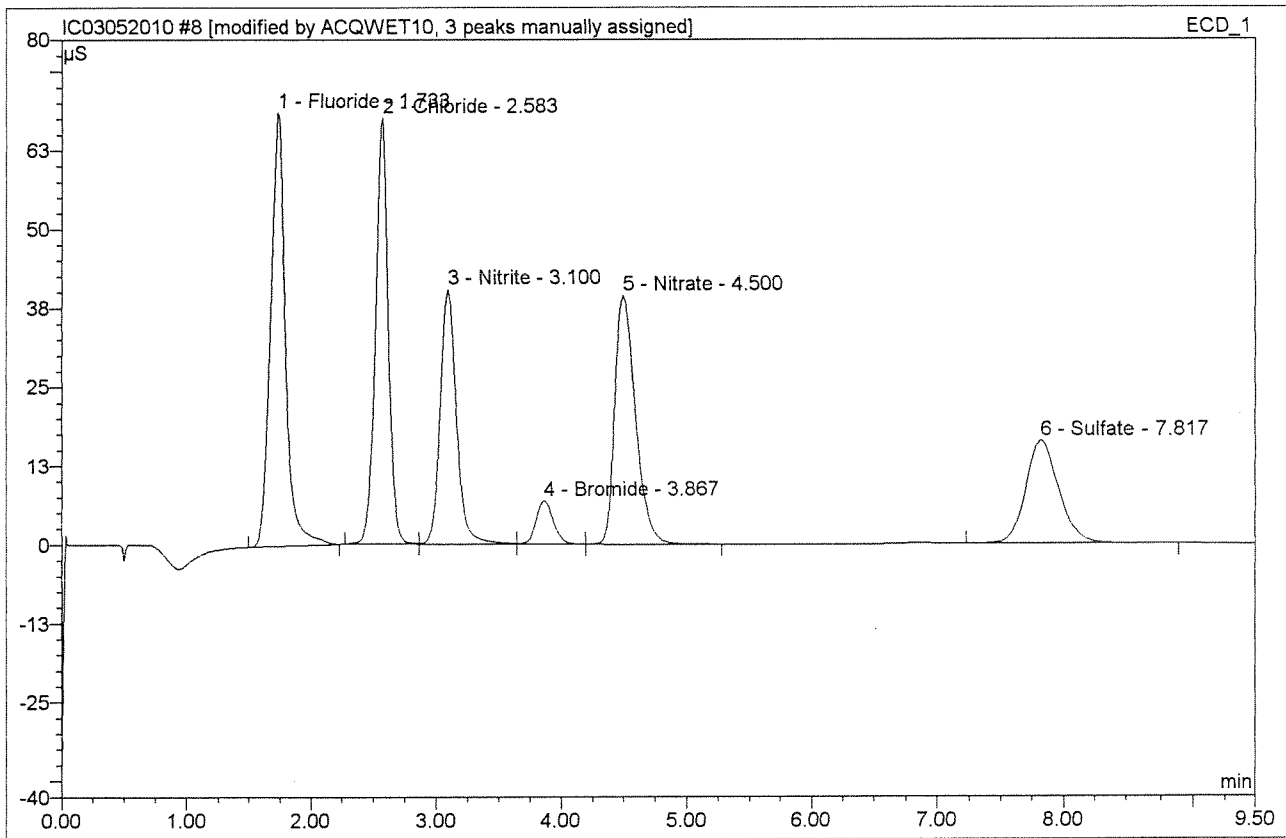


| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount   | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|----------|------|
| 1             | 4.20            | Bromide   | 12.583       | 2.210          | 100.00        | 4.124103 | BMB  |
| <b>Total:</b> |                 |           | 12.583       | 2.210          | 100.00        | 4.124    |      |

### 8 CCV AN11-20-H

#### CCV1

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCV AN11-20-H  | Injection Volume: | 200.0  |
| Vial Number:     | 8              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |

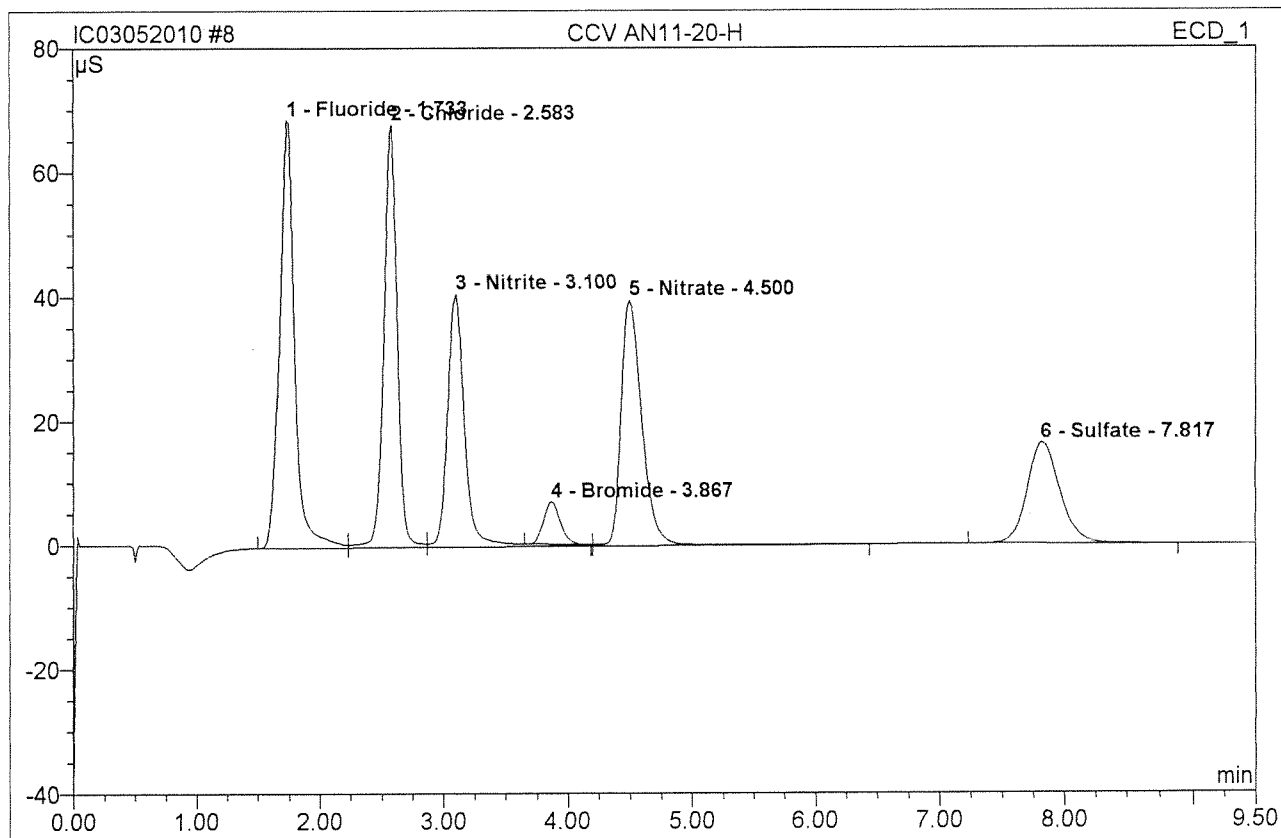


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount    | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|-----------|------|
| 1             | 1.73             | Fluoride  | 68.651       | 9.603          | 25.90          | 5.019100% | BMB* |
| 2             | 2.58             | Chloride  | 67.491       | 7.989          | 21.55          | 5.123162% | BM * |
| 3             | 3.10             | Nitrite   | 40.257       | 5.982          | 16.13          | 2.072104% | M *  |
| 4             | 3.87             | Bromide   | 6.870        | 1.092          | 2.95           | 2.039102% | M ^  |
| 5             | 4.50             | Nitrate   | 39.326       | 7.441          | 20.07          | 2.020101% | MB^A |
| 6             | 7.82             | Sulfate   | 16.292       | 4.974          | 13.41          | 5.055101% | BMB^ |
| <b>Total:</b> |                  |           | 238.888      | 37.082         | 100.00         | 21.327    |      |

MB  
5/25/10

**8 CCV AN11-20-H****CCV1**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCV AN11-20-H  | Injection Volume: | 200.0  |
| Vial Number:     | 8              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



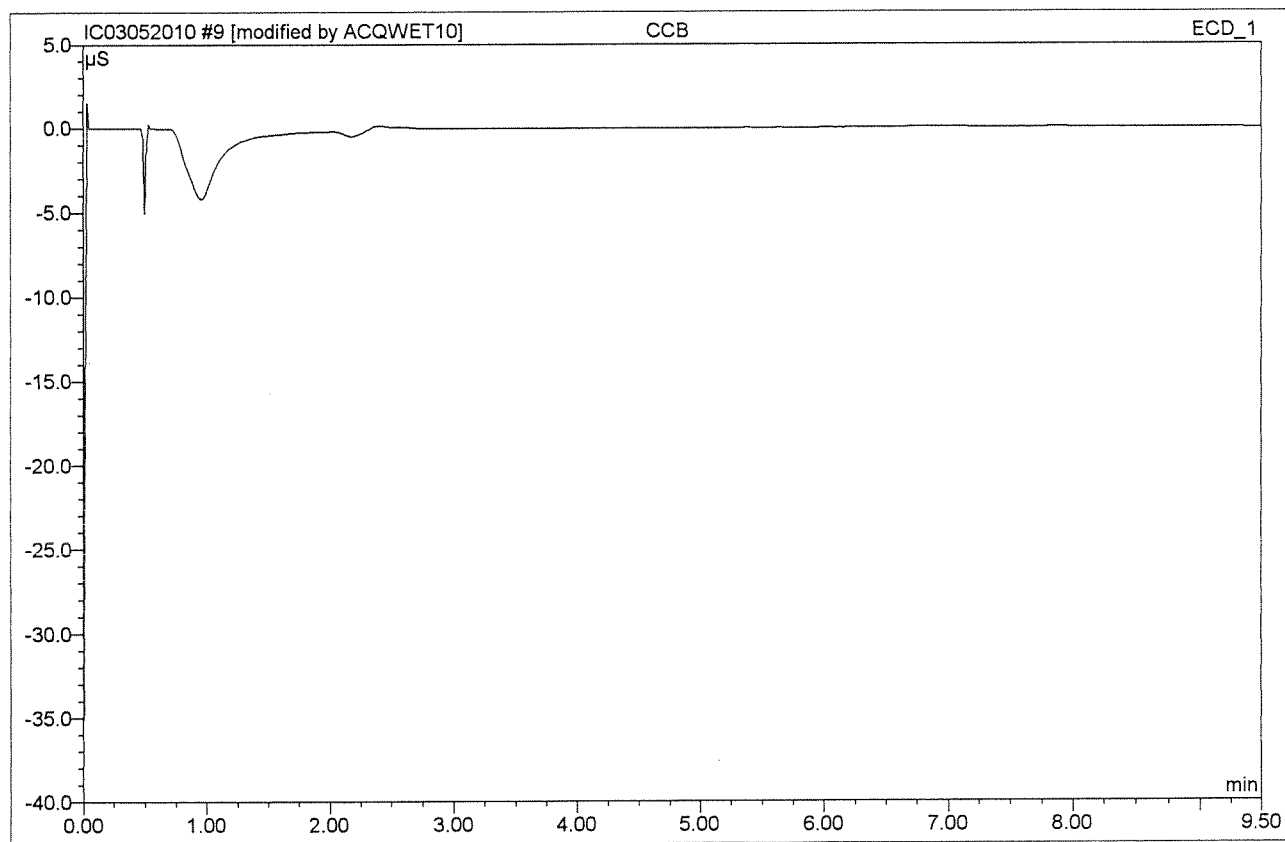
| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 1.73             | Fluoride  | 68.792                  | 9.765                                | 25.54          | 5.104  | BM   |
| 2             | 2.58             | Chloride  | 67.960                  | 8.287                                | 21.68          | 5.314  | M    |
| 3             | 3.10             | Nitrite   | 40.654                  | 6.446                                | 16.86          | 2.233  | M    |
| 4             | 3.87             | Bromide   | 6.836                   | 1.078                                | 2.82           | 2.012  | Rd   |
| 5             | 4.50             | Nitrate   | 39.529                  | 7.678                                | 20.08          | 2.084  | MB   |
| 6             | 7.82             | Sulfate   | 16.292                  | 4.974                                | 13.01          | 5.055  | BMB  |
| <b>Total:</b> |                  |           | 240.065                 | 38.229                               | 100.00         | 21.801 |      |

Before



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|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>9 CCB</b>     |                |                   |        |
| <b>CCB1</b>      |                |                   |        |
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:06 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



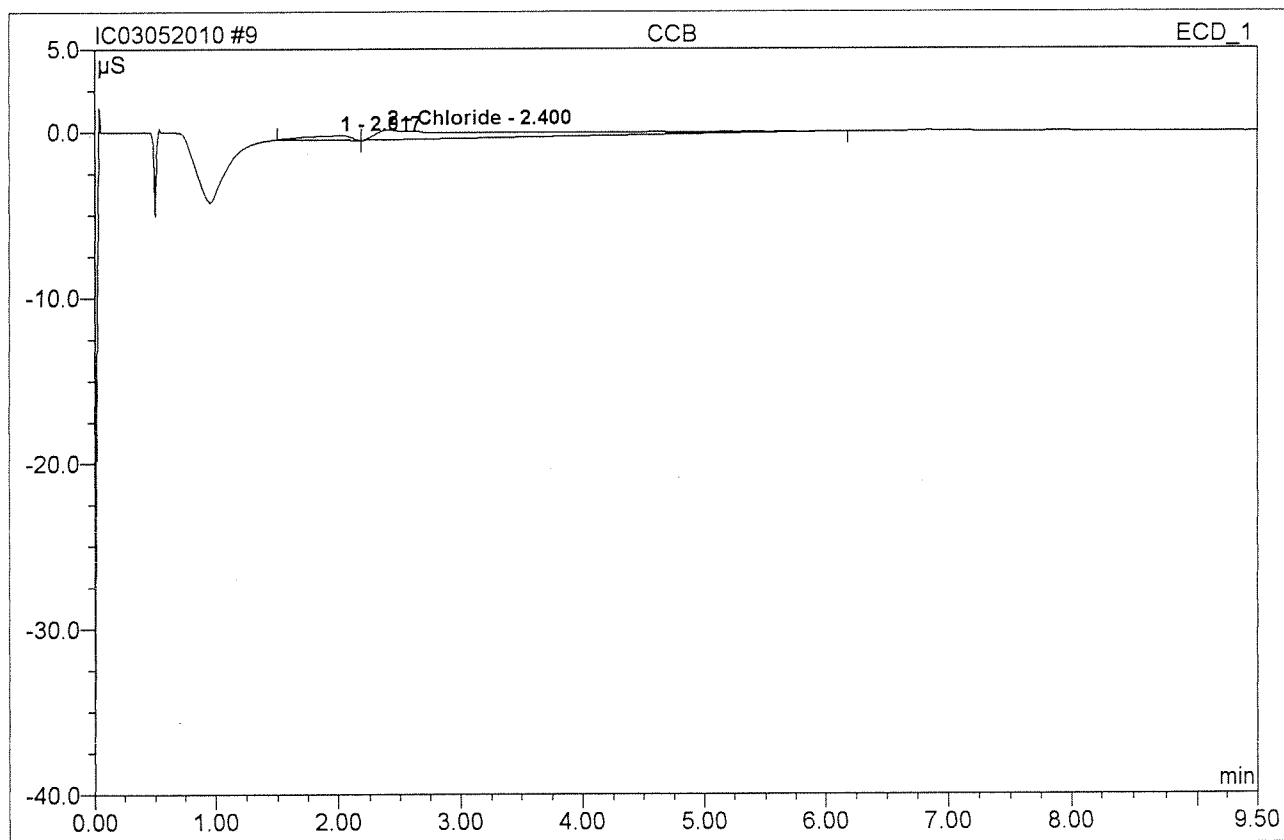
| No.    | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

  
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**9 CCB****CCB1**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:06 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |

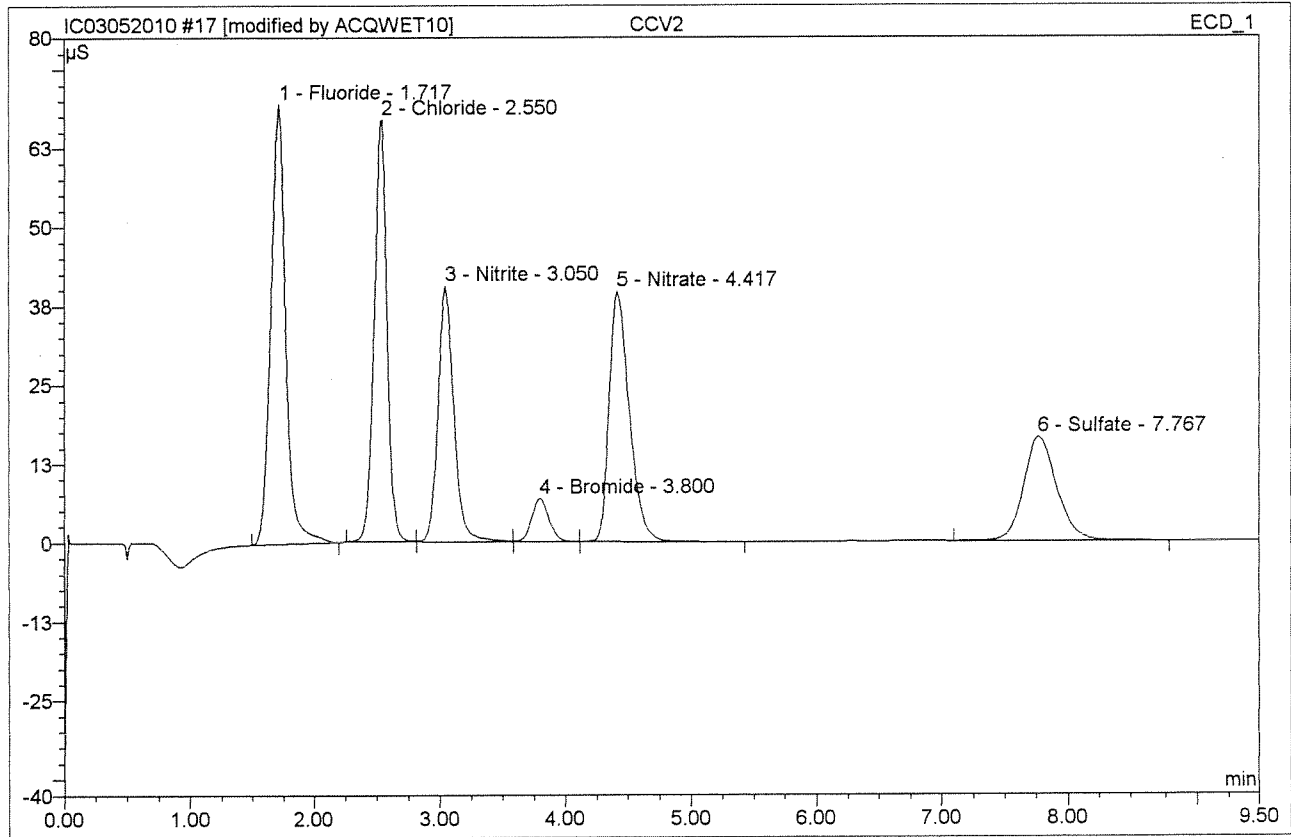


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.02             | n.a.      | 0.294        | 0.123          | 11.64          | n.a.   | BMb  |
| 2             | 2.40             | Chloride  | 0.611        | 0.937          | 88.36          | 0.601  | bMB  |
| <b>Total:</b> |                  |           | 0.905        | 1.060          | 100.00         | 0.601  |      |

Before

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>17 CCV2</b>   |                 |                   |        |
| <b>CCV2</b>      |                 |                   |        |
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:42 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height $\mu\text{S}$ | Area $\mu\text{S}\cdot\text{min}$ | Rel. Area % | Amount    | Type |
|---------------|---------------|-----------|----------------------|-----------------------------------|-------------|-----------|------|
| 1             | 1.72          | Fluoride  | 69.729               | 9.557                             | 25.95       | 4.994100% | BMB* |
| 2             | 2.55          | Chloride  | 66.784               | 7.890                             | 21.43       | 5.059101% | BM*  |
| 3             | 3.05          | Nitrite   | 40.519               | 5.918                             | 16.07       | 2.050103% | M*   |
| 4             | 3.80          | Bromide   | 6.886                | 1.076                             | 2.92        | 2.009101% | M*   |
| 5             | 4.42          | Nitrate   | 39.593               | 7.361                             | 19.99       | 1.998100% | MB*  |
| 6             | 7.77          | Sulfate   | 16.591               | 5.020                             | 13.63       | 5.101102% | BMB  |
| <b>Total:</b> |               |           | 240.102              | 36.822                            | 100.00      | 21.211    |      |

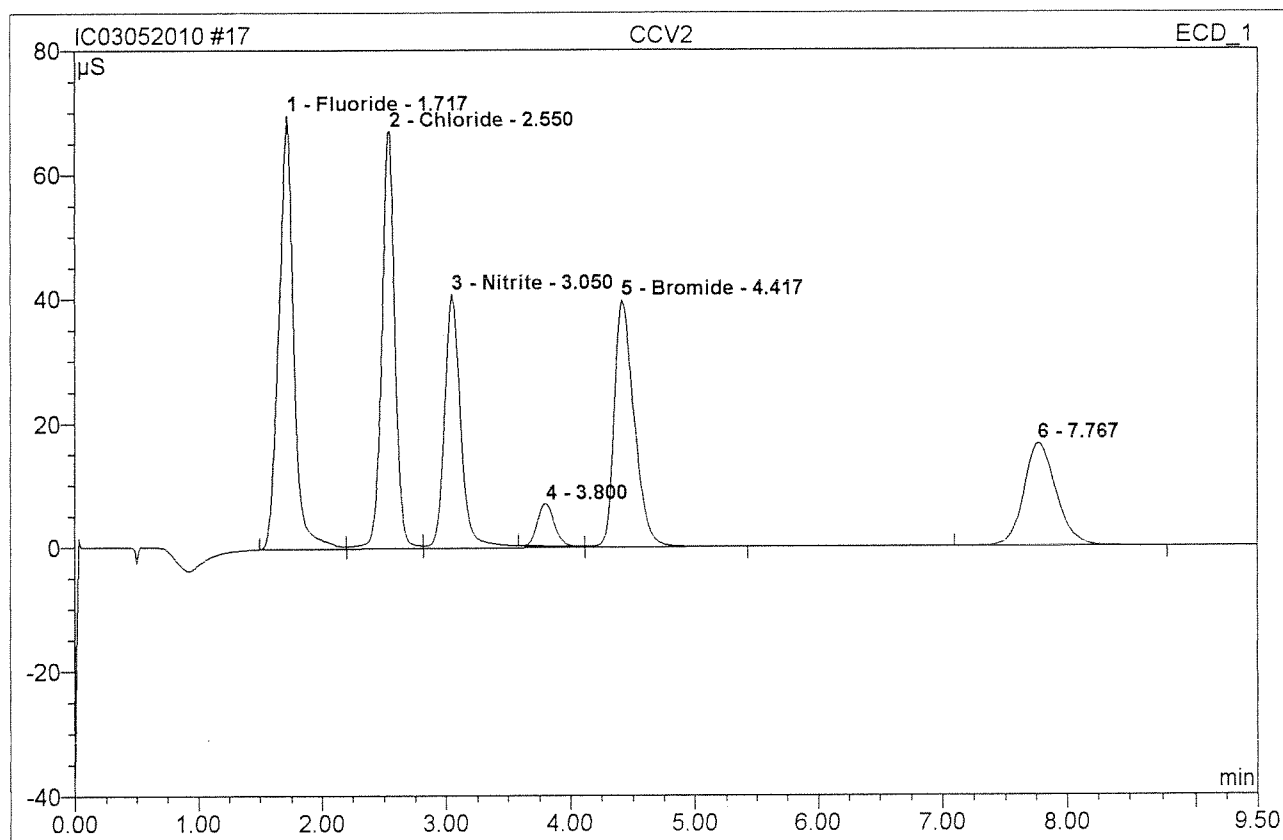
MB

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**17 CCV2****CCV2**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:42 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



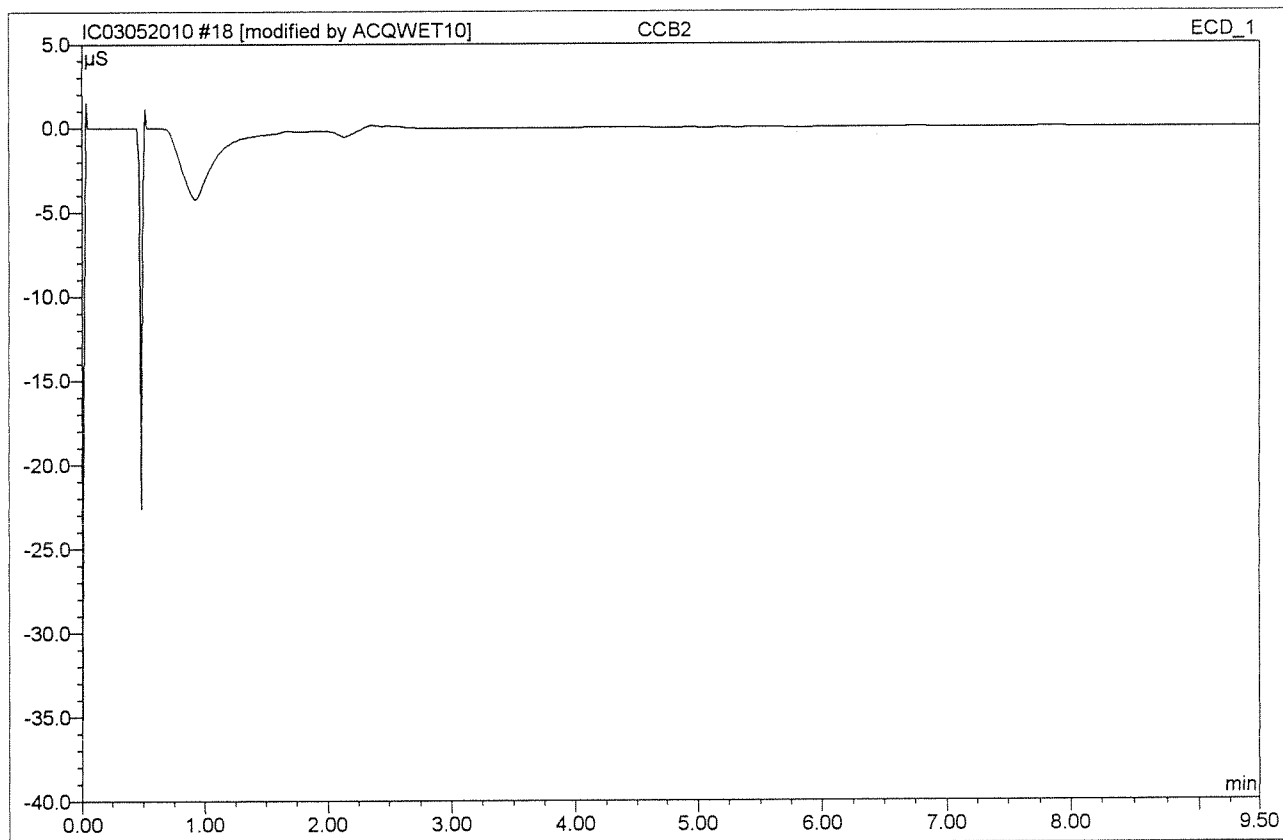
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.72             | Fluoride  | 69.845       | 9.687          | 25.68          | 5.063  | BM   |
| 2             | 2.55             | Chloride  | 67.214       | 8.155          | 21.61          | 5.229  | M    |
| 3             | 3.05             | Nitrite   | 40.874       | 6.315          | 16.74          | 2.187  | M    |
| 4             | 3.80             | n.a.      | 6.848        | 1.061          | 2.81           | n.a.   | Rd   |
| 5             | 4.42             | Bromide   | 39.745       | 7.491          | 19.85          | 13.980 | MB   |
| 6             | 7.77             | n.a.      | 16.591       | 5.020          | 13.31          | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 241.117      | 37.729         | 100.00         | 26.459 |      |

Reton

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>18 CCB2</b>   |                 |                   |        |
| <b>CCB2</b>      |                 |                   |        |
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

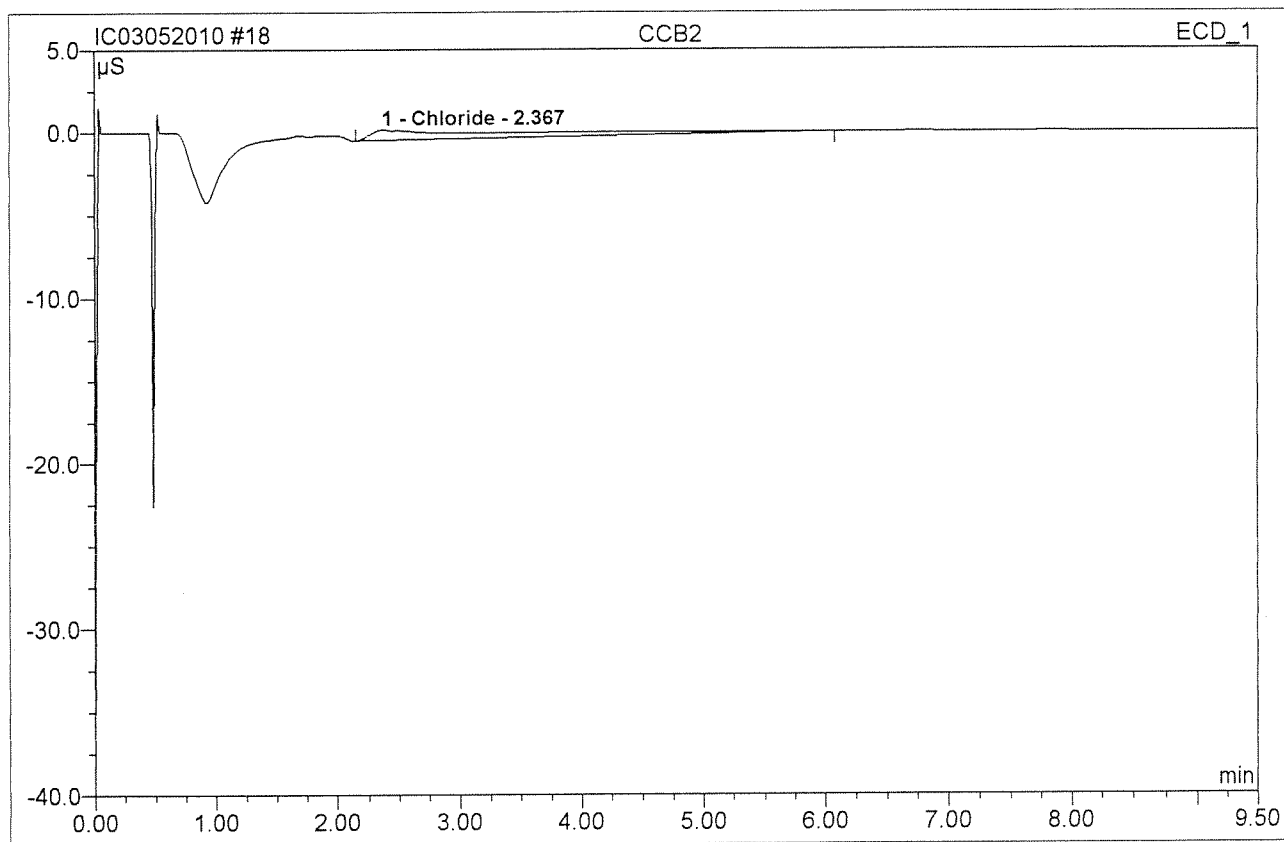


| No.    | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|--------------|----------------|----------------|--------|------|
| Total: |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

*W2*

*5/25/10*

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>18 CCB2</b>   |                 |                   |        |
| <b>CCB2</b>      |                 |                   |        |
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

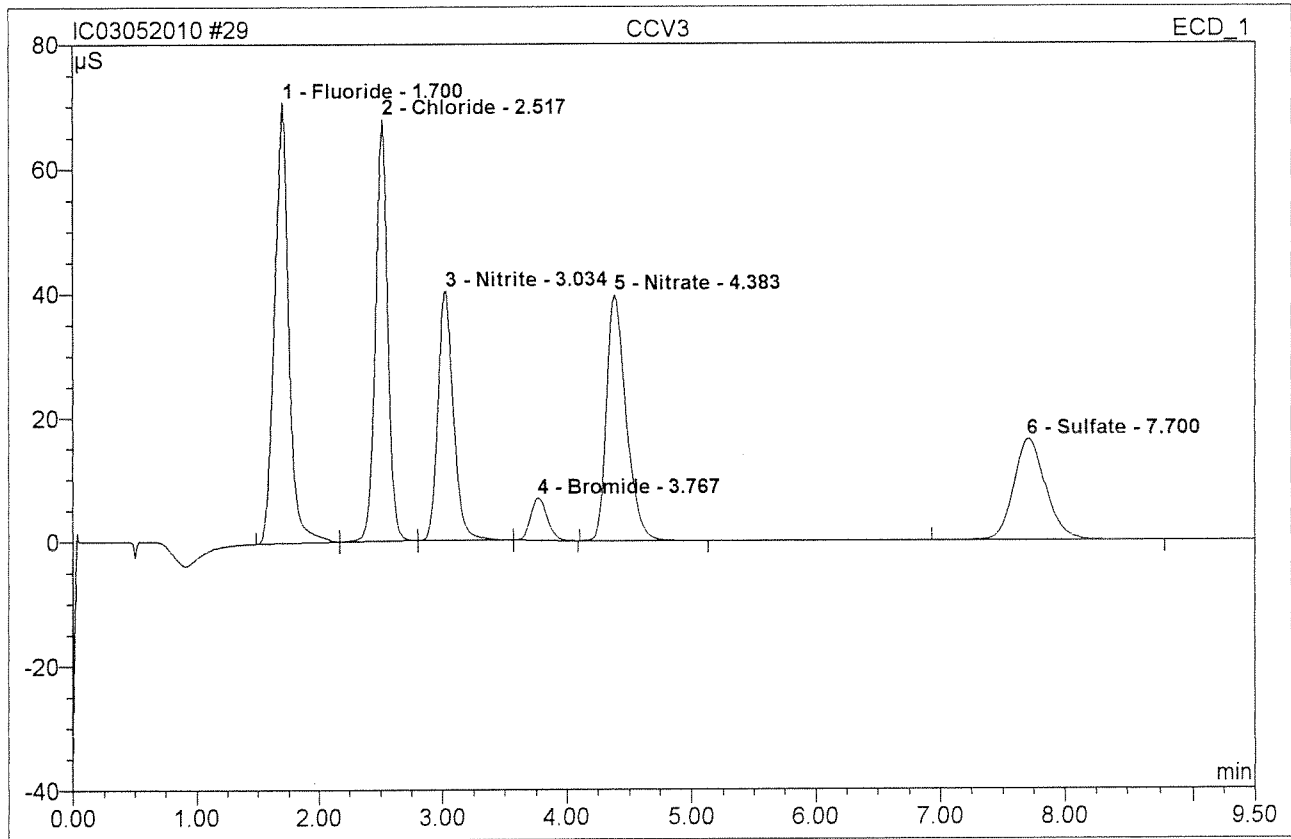


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.37             | Chloride  | 0.642        | 0.970          | 100.00         | 0.622  | BMB  |
| <b>Total:</b> |                  |           | 0.642        | 0.970          | 100.00         | 0.622  |      |

Before

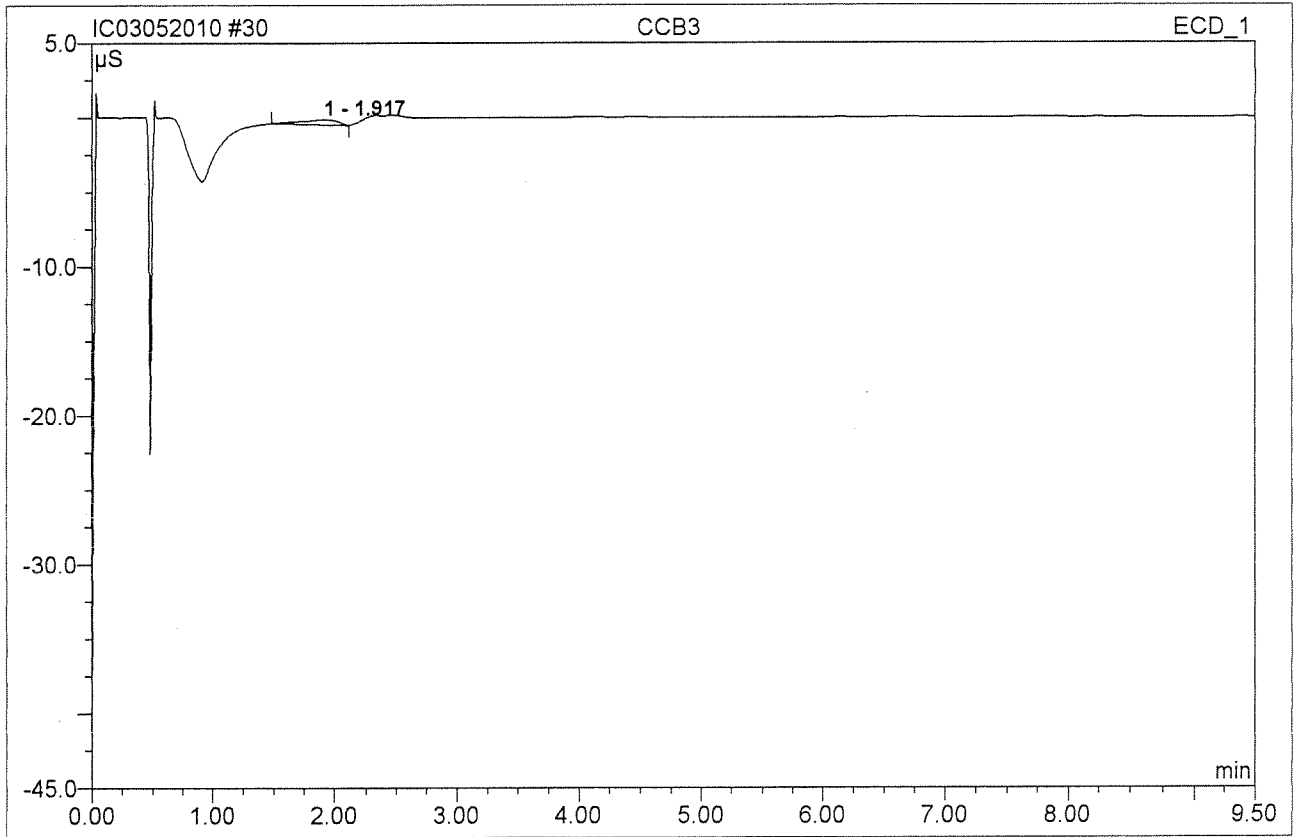
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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>29 CCV3</b>   |                 |                   |        |
| <b>CCV3</b>      |                 |                   |        |
| Sample Name:     | CCV3            | Injection Volume: | 200.0  |
| Vial Number:     | 26              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 13:50 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount     | Type |
|---------------|--------------|-----------|-----------|-------------|------------|------------|------|
| 1             | 1.70         | Fluoride  | 70.840    | 9.559       | 26.16      | 4.996/100% | BMb  |
| 2             | 2.52         | Chloride  | 67.871    | 7.827       | 21.42      | 5.019/100% | bMb  |
| 3             | 3.03         | Nitrite   | 40.169    | 5.866       | 16.05      | 2.032/102% | bMb  |
| 4             | 3.77         | Bromide   | 6.870     | 1.054       | 2.88       | 1.967/99%  | bMB  |
| 5             | 4.38         | Nitrate   | 39.641    | 7.330       | 20.06      | 1.990/99%  | BMB  |
| 6             | 7.70         | Sulfate   | 16.325    | 4.905       | 13.42      | 4.984/100% | BMB  |
| <b>Total:</b> |              |           | 241.716   | 36.541      | 100.00     | 20.987     |      |

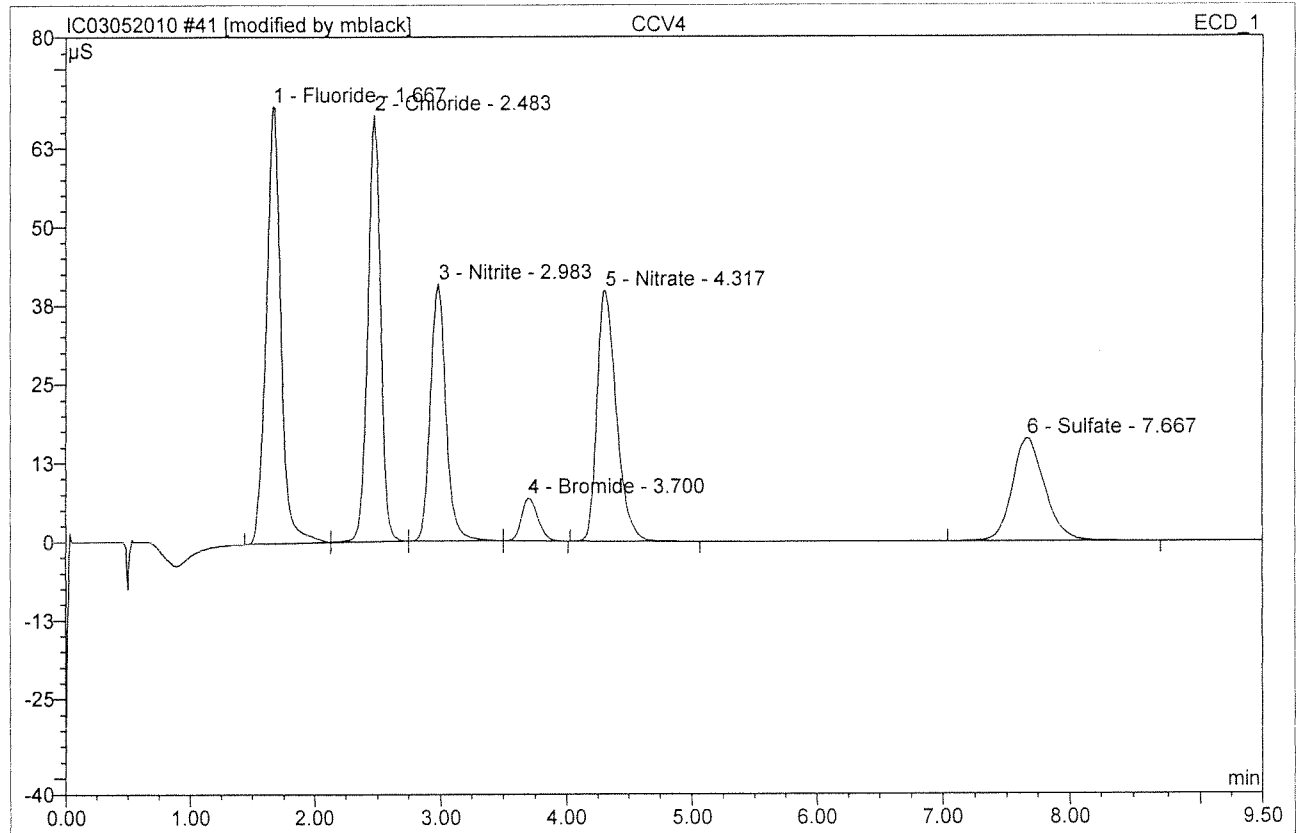
|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>30 CCB3</b>   |                 |                   |        |
| <b>CCB3</b>      |                 |                   |        |
| Sample Name:     | CCB3            | Injection Volume: | 200.0  |
| Vial Number:     | 27              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 14:02 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.92            | n.a.      | 0.327        | 0.119          | 100.00        | n.a.   | BMB  |
| <b>Total:</b> |                 |           | 0.327        | 0.119          | 100.00        | 0.000  |      |



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>41 CCV4</b>   |                 |                   |        |
| <b>CCV4</b>      |                 |                   |        |
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 38              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

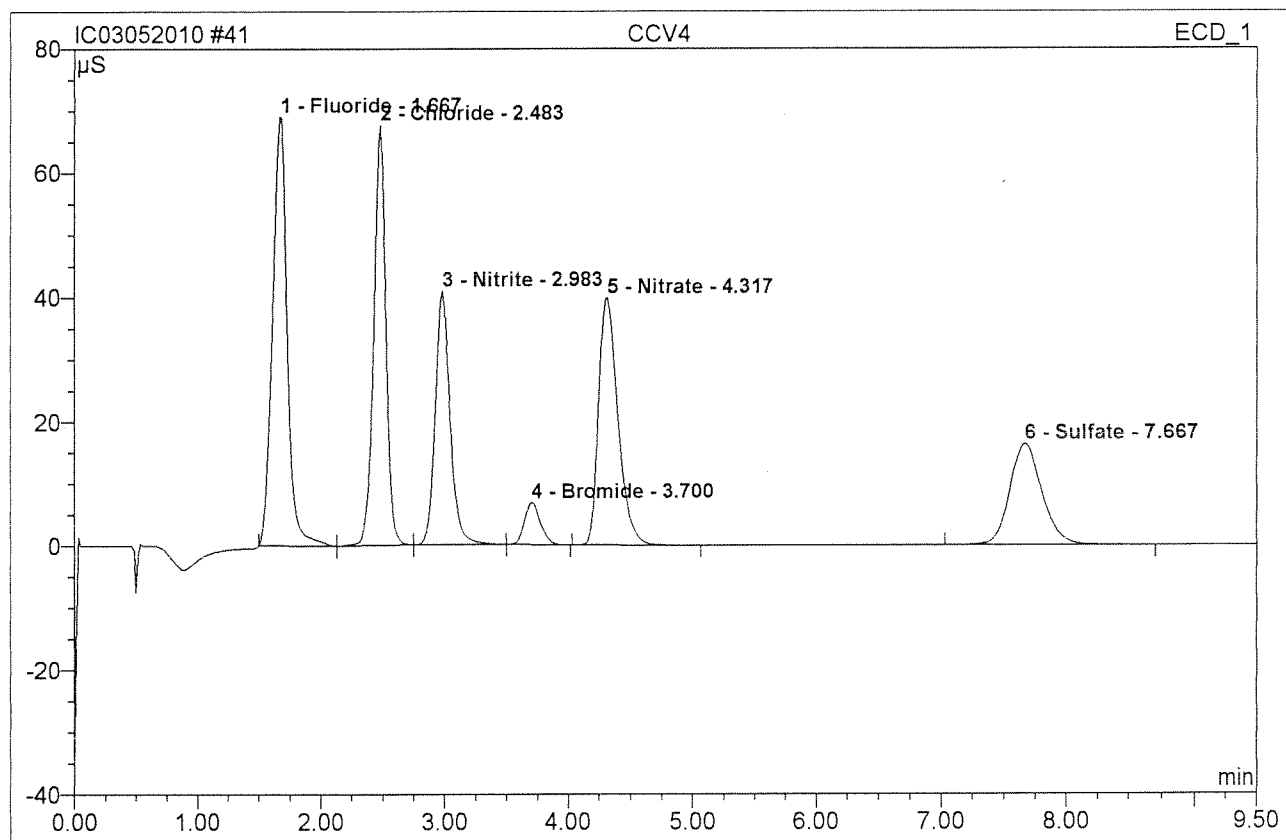


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount               | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|----------------------|------|
| 1             | 1.67            | Fluoride  | 69.318       | 9.441          | 26.15         | 4.934 <sup>99%</sup> | BMB* |
| 2             | 2.48            | Chloride  | 67.648       | 7.750          | 21.47         | 4.970 <sup>99%</sup> | bMb  |
| 3             | 2.98            | Nitrite   | 40.787       | 5.806          | 16.08         | 2.011 <sup>10%</sup> | bMb  |
| 4             | 3.70            | Bromide   | 6.853        | 1.040          | 2.88          | 1.941 <sup>7%</sup>  | bMB  |
| 5             | 4.32            | Nitrate   | 39.774       | 7.203          | 19.96         | 1.955 <sup>8%</sup>  | BMB  |
| 6             | 7.67            | Sulfate   | 16.335       | 4.856          | 13.45         | 4.935 <sup>99%</sup> | BMB  |
| <b>Total:</b> |                 |           | 240.715      | 36.097         | 100.00        | 20.746               |      |

(MS)

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>41 CCV4</b>   |                 |                   |        |
| <b>CCV4</b>      |                 |                   |        |
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 38              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

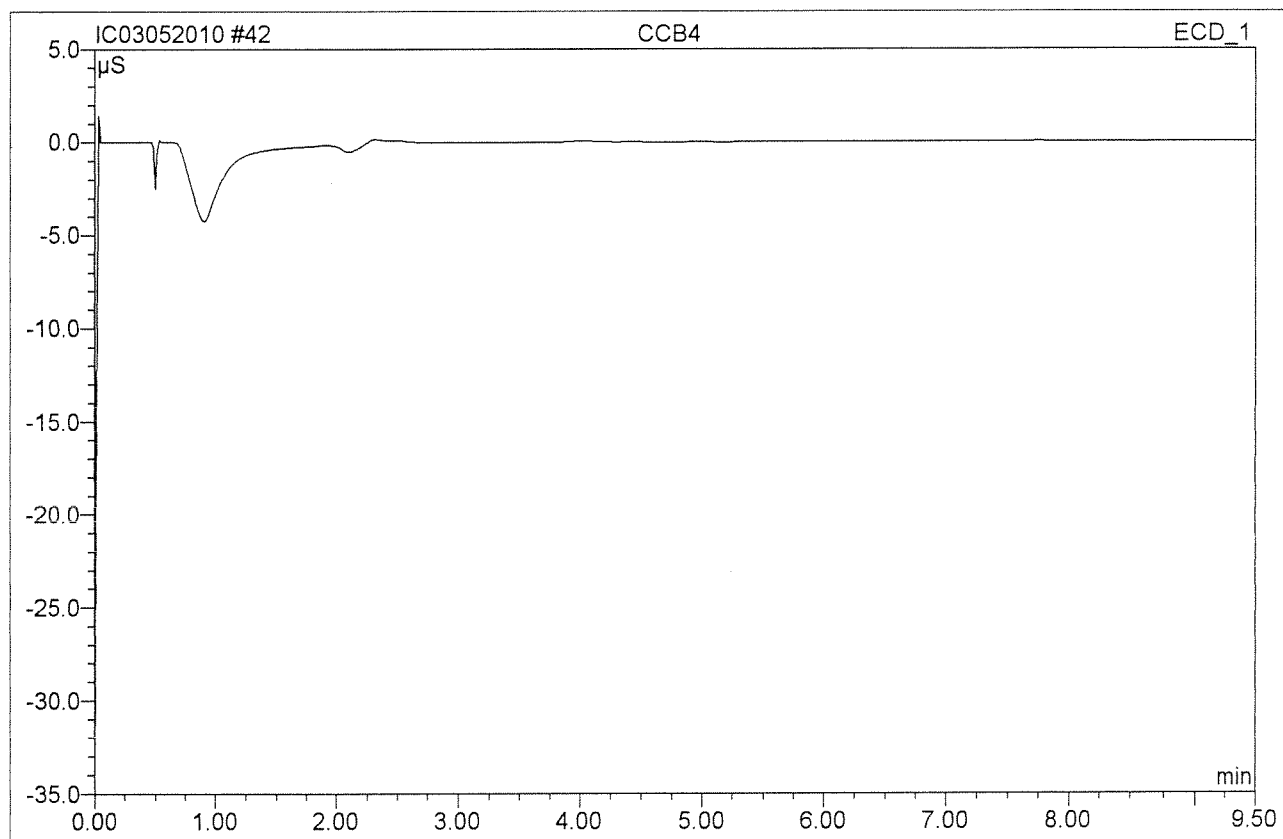


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.67            | Fluoride  | 68.954       | 9.278          | 25.82         | 4.849  | BMb  |
| 2             | 2.48            | Chloride  | 67.648       | 7.750          | 21.57         | 4.970  | bMb  |
| 3             | 2.98            | Nitrite   | 40.787       | 5.806          | 16.16         | 2.011  | bMb  |
| 4             | 3.70            | Bromide   | 6.853        | 1.040          | 2.89          | 1.941  | bMB  |
| 5             | 4.32            | Nitrate   | 39.774       | 7.203          | 20.05         | 1.955  | BMB  |
| 6             | 7.67            | Sulfate   | 16.335       | 4.856          | 13.51         | 4.935  | BMB  |
| <b>Total:</b> |                 |           | 240.351      | 35.933         | 100.00        | 20.661 |      |

Before

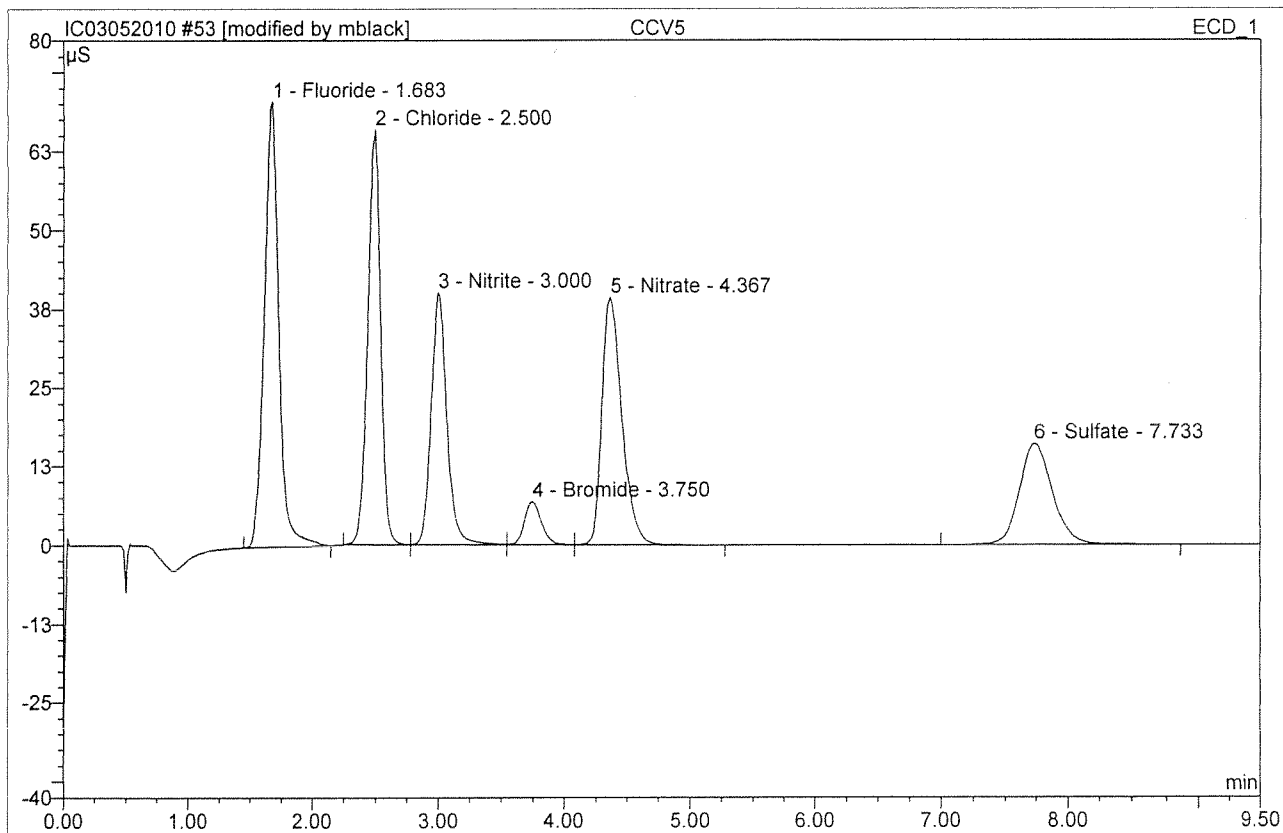
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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>42 CCB4</b>   |                 |                   |        |
| <b>CCB4</b>      |                 |                   |        |
| Sample Name:     | CCB4            | Injection Volume: | 200.0  |
| Vial Number:     | 39              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:26 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>53 CCV5</b>   |                 |                   |        |
| <b>CCV5</b>      |                 |                   |        |
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 50              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:37 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 1.68         | Fluoride  | 70.654    | 9.482       | 26.17      | 4.955972  | BMB* |
| 2             | 2.50         | Chloride  | 65.846    | 7.688       | 21.22      | 4.929998  | BM * |
| 3             | 3.00         | Nitrite   | 39.967    | 5.862       | 16.18      | 2.0301022 | M *  |
| 4             | 3.75         | Bromide   | 6.849     | 1.071       | 2.96       | 1.9991022 | M *  |
| 5             | 4.37         | Nitrate   | 39.230    | 7.245       | 20.00      | 1.967992  | MB*  |
| 6             | 7.73         | Sulfate   | 16.116    | 4.885       | 13.48      | 4.964972  | BMB  |
| <b>Total:</b> |              |           | 238.661   | 36.232      | 100.00     | 20.845    |      |

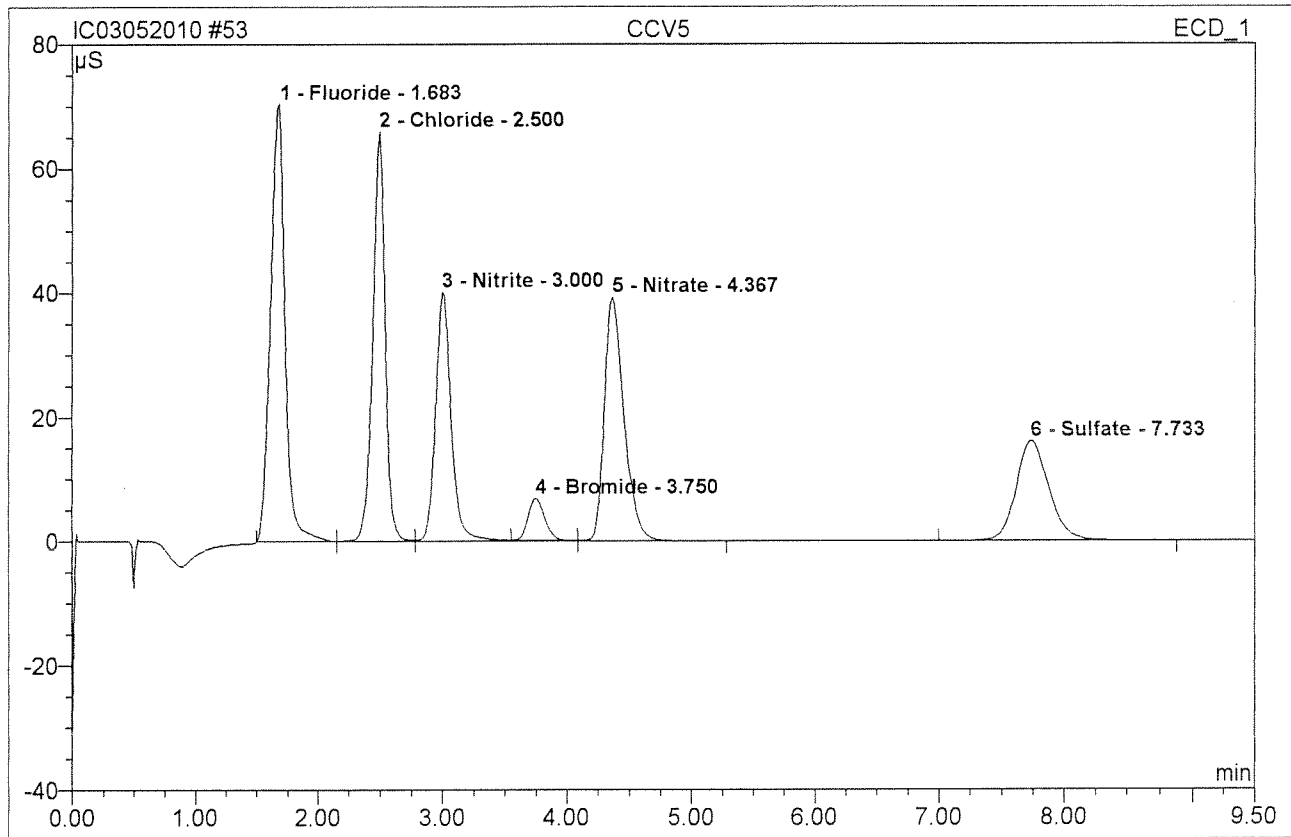
MS

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**53 CCV5****CCV5**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 50              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:37 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

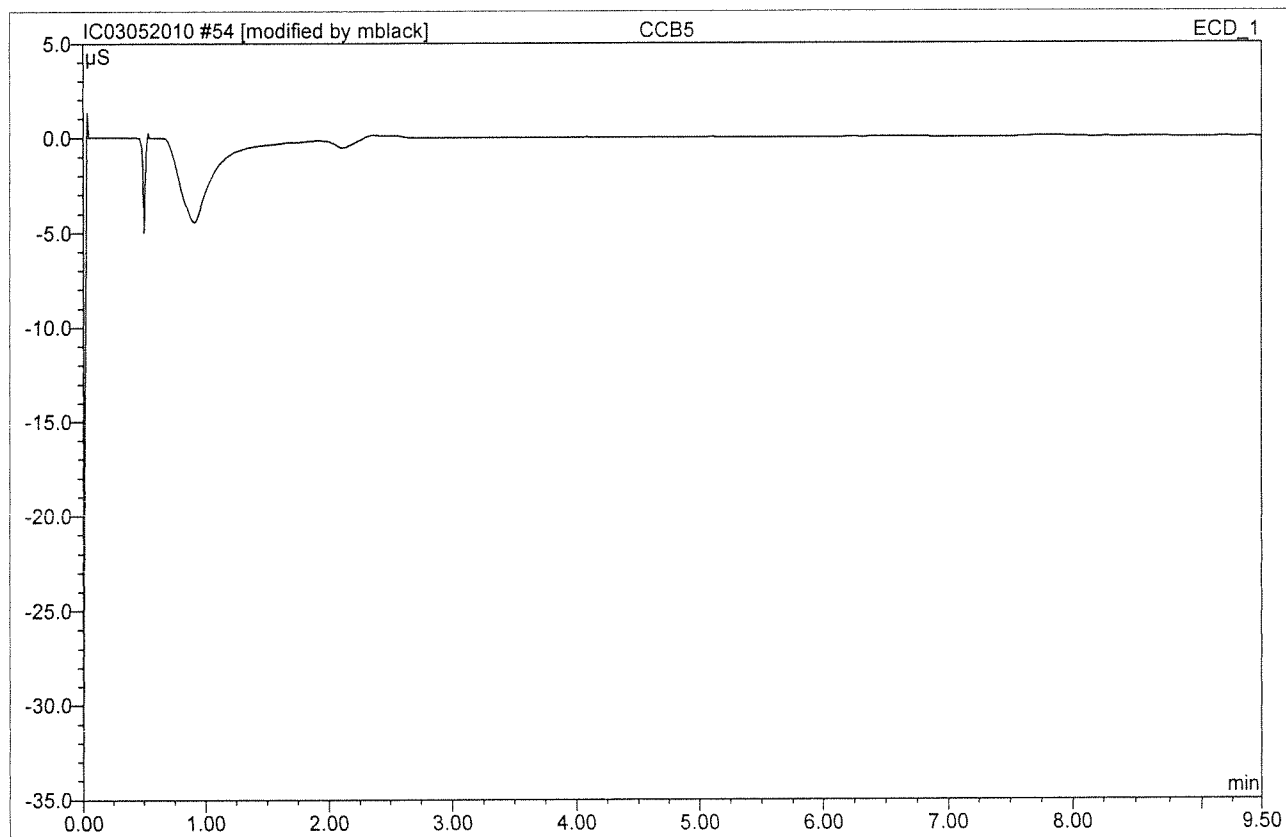


| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 70.433       | 9.383          | 25.77         | 4.904  | BM   |
| 2             | 2.50            | Chloride  | 66.008       | 7.782          | 21.37         | 4.990  | M    |
| 3             | 3.00            | Nitrite   | 40.101       | 6.031          | 16.56         | 2.089  | M    |
| 4             | 3.75            | Bromide   | 6.791        | 1.043          | 2.86          | 1.946  | Rd   |
| 5             | 4.37            | Nitrate   | 39.283       | 7.287          | 20.01         | 1.978  | MB   |
| 6             | 7.73            | Sulfate   | 16.116       | 4.885          | 13.42         | 4.964  | BMB  |
| <b>Total:</b> |                 |           | 238.732      | 36.411         | 100.00        | 20.872 |      |

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>54 CCB5</b>   |                 |                   |        |
| <b>CCB5</b>      |                 |                   |        |
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



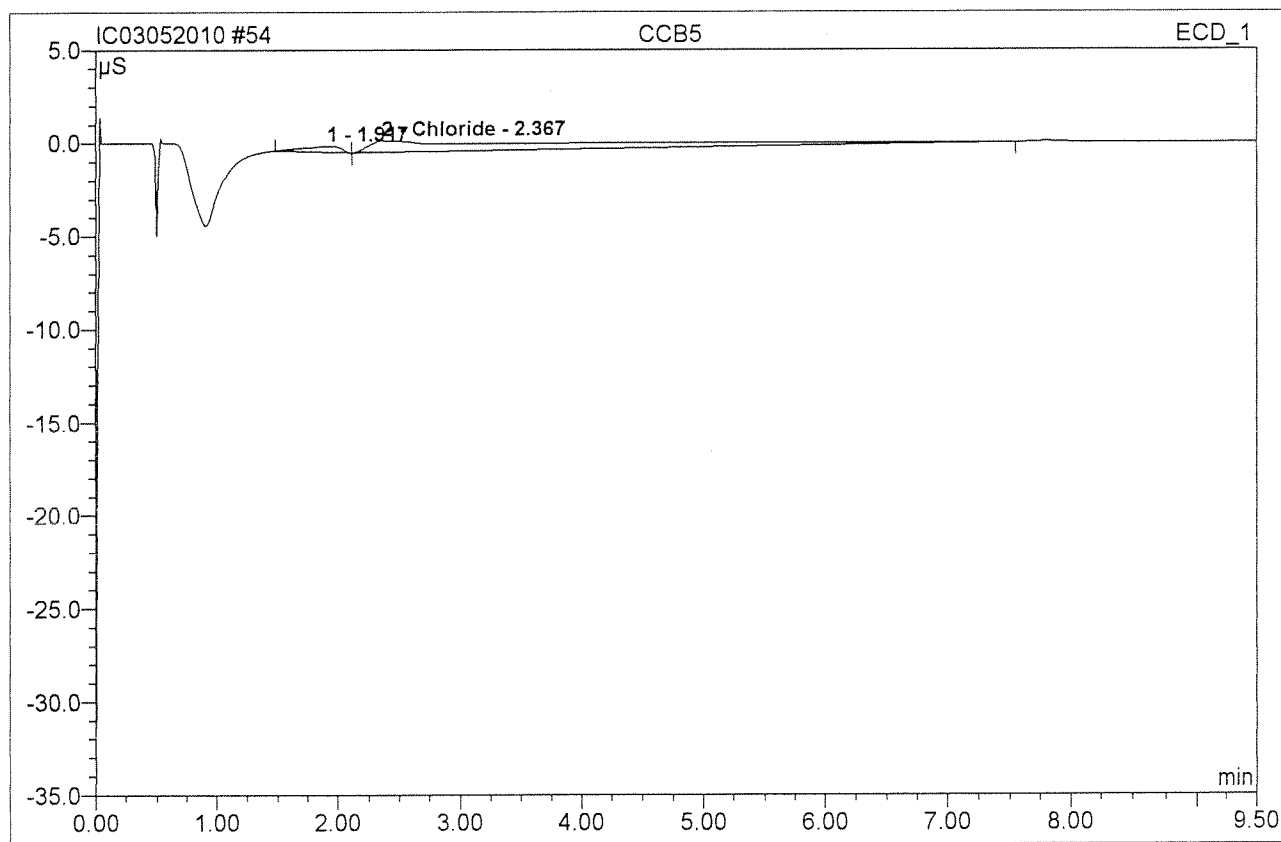
| No.           | Ret.Time min | Peak Name | Height $\mu$ S | Area $\mu$ S*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|----------------|------------------|------------|--------|------|
| <b>Total:</b> |              |           | 0.000          | 0.000            | 0.00       | 0.000  |      |

MB

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**54 CCB5****CCB5**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.92             | n.a.      | 0.319        | 0.118          | 7.92           | n.a.   | BMb  |
| 2             | 2.37             | Chloride  | 0.637        | 1.374          | 92.08          | 0.881  | bMB  |
| <b>Total:</b> |                  |           | 0.956        | 1.493          | 100.00         | 0.881  |      |

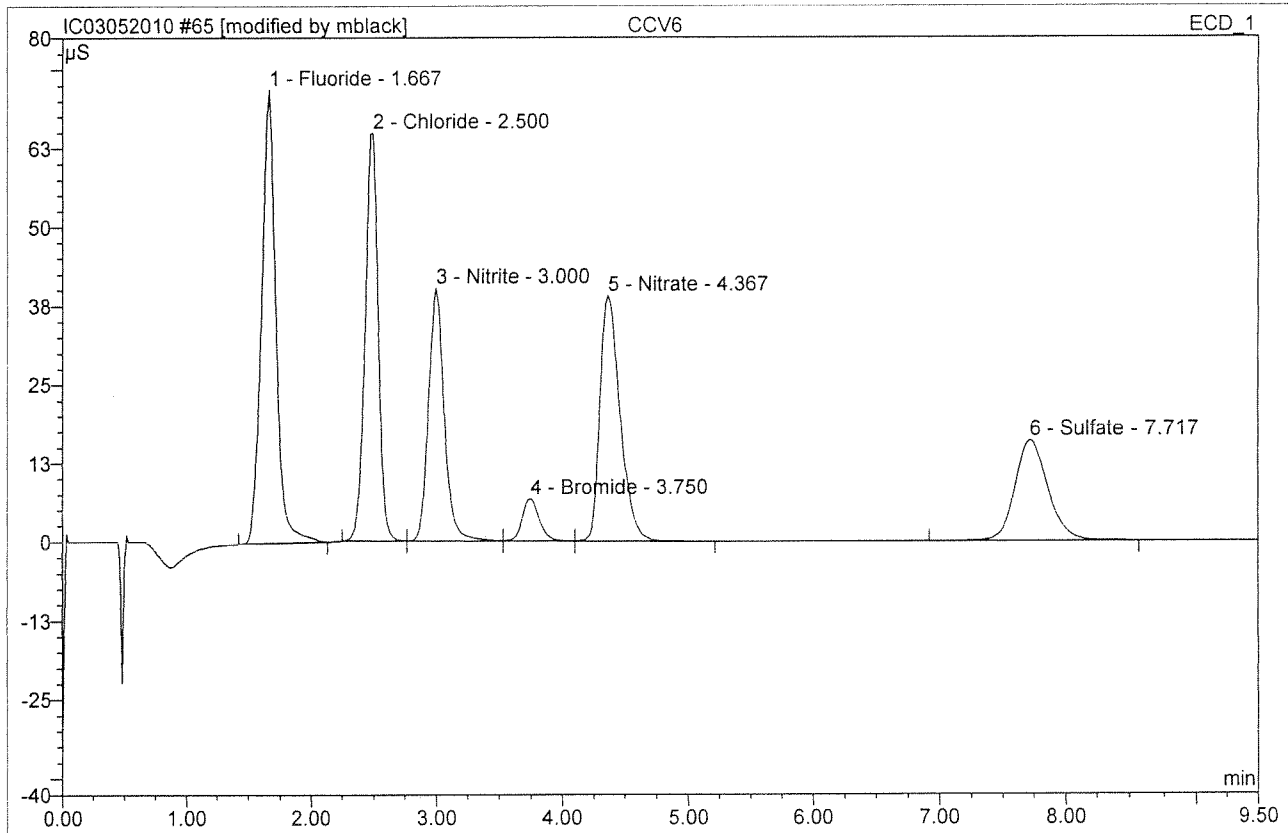
Report

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# 65 CCV6

## CCV6

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV6            | Injection Volume: | 200.0  |
| Vial Number:     | 62              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



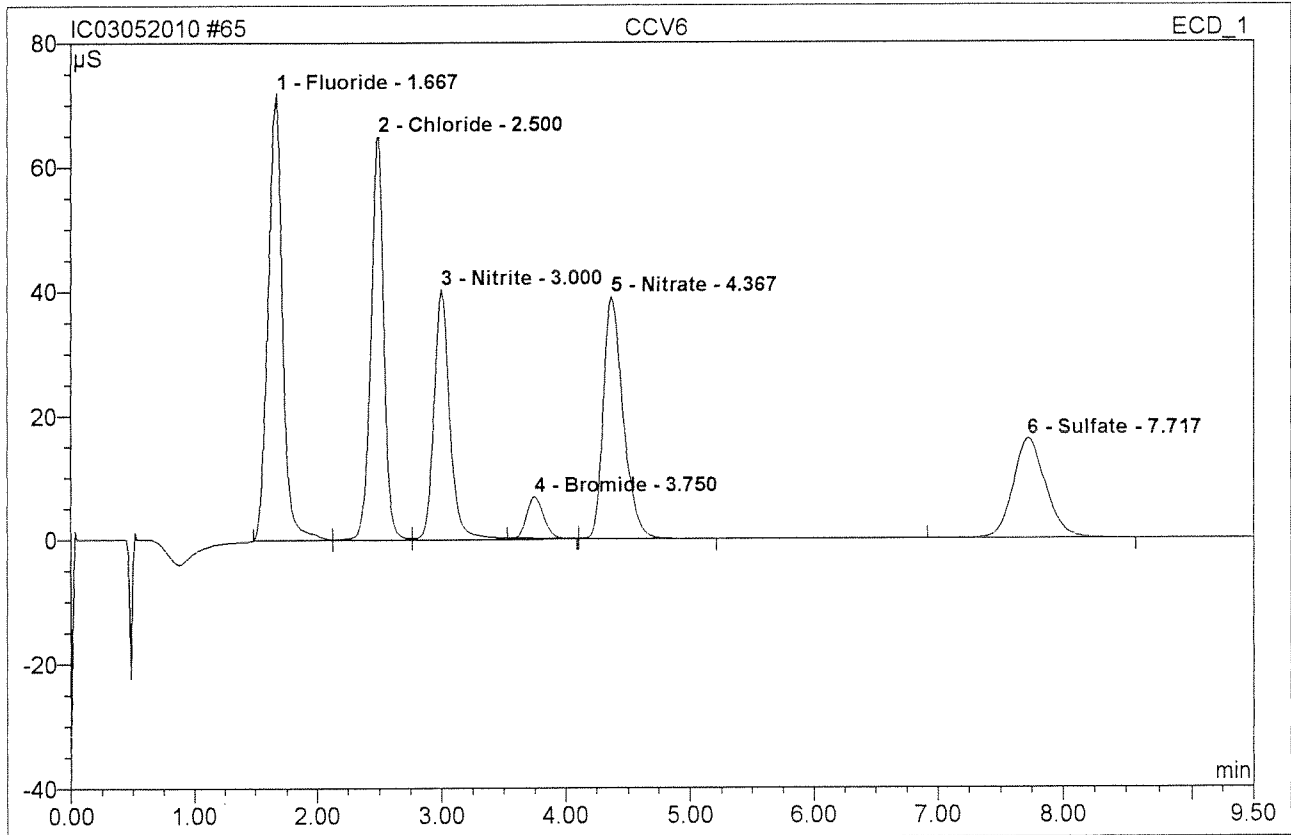
| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 1.67         | Fluoride  | 72.127    | 9.575       | 26.32      | 5.004100% | BMB* |
| 2             | 2.50         | Chloride  | 64.810    | 7.733       | 21.25      | 4.95899%  | BM * |
| 3             | 3.00         | Nitrite   | 40.147    | 5.870       | 16.13      | 2.033102% | M *  |
| 4             | 3.75         | Bromide   | 6.815     | 1.073       | 2.95       | 2.002100% | M *  |
| 5             | 4.37         | Nitrate   | 39.002    | 7.269       | 19.98      | 1.97399%  | MB*  |
| 6             | 7.72         | Sulfate   | 16.129    | 4.867       | 13.38      | 4.94695%  | BMB  |
| <b>Total:</b> |              |           | 239.030   | 36.386      | 100.00     | 20.917    |      |

MB

5/25/10



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>65 CCV6</b>   |                 |                   |        |
| <b>CCV6</b>      |                 |                   |        |
| Sample Name:     | CCV6            | Injection Volume: | 200.0  |
| Vial Number:     | 62              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



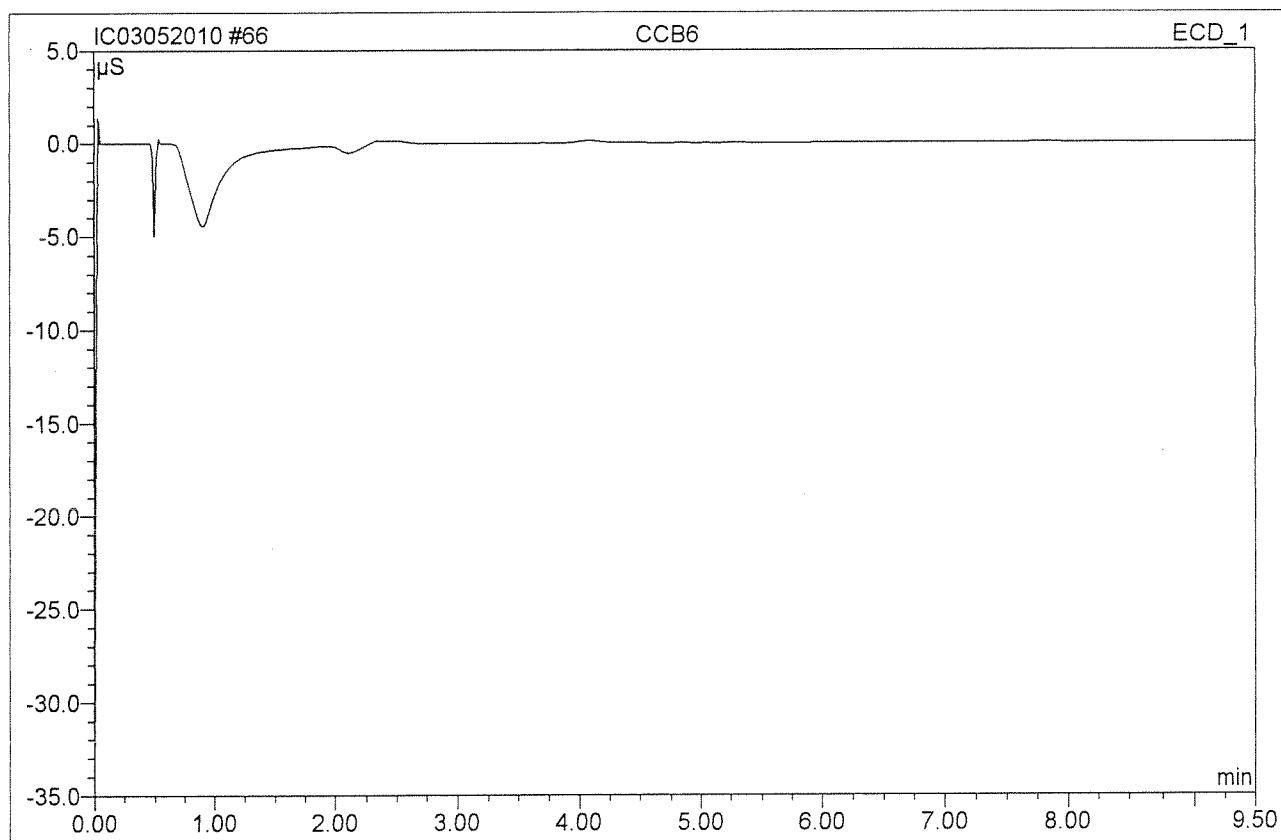
| No.           | Ret.Time min | Peak Name | Height $\mu\text{S}$ | Area $\mu\text{S}\cdot\text{min}$ | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|----------------------|-----------------------------------|------------|--------|------|
| 1             | 1.67         | Fluoride  | 71.995               | 9.531                             | 25.94      | 4.981  | BM   |
| 2             | 2.50         | Chloride  | 65.050               | 7.875                             | 21.43      | 5.049  | M    |
| 3             | 3.00         | Nitrite   | 40.343               | 6.110                             | 16.63      | 2.116  | M    |
| 4             | 3.75         | Bromide   | 6.756                | 1.043                             | 2.84       | 1.947  | Rd   |
| 5             | 4.37         | Nitrate   | 39.077               | 7.324                             | 19.93      | 1.988  | MB   |
| 6             | 7.72         | Sulfate   | 16.129               | 4.867                             | 13.24      | 4.946  | BMB  |
| <b>Total:</b> |              |           | 239.351              | 36.750                            | 100.00     | 21.027 |      |

Electron

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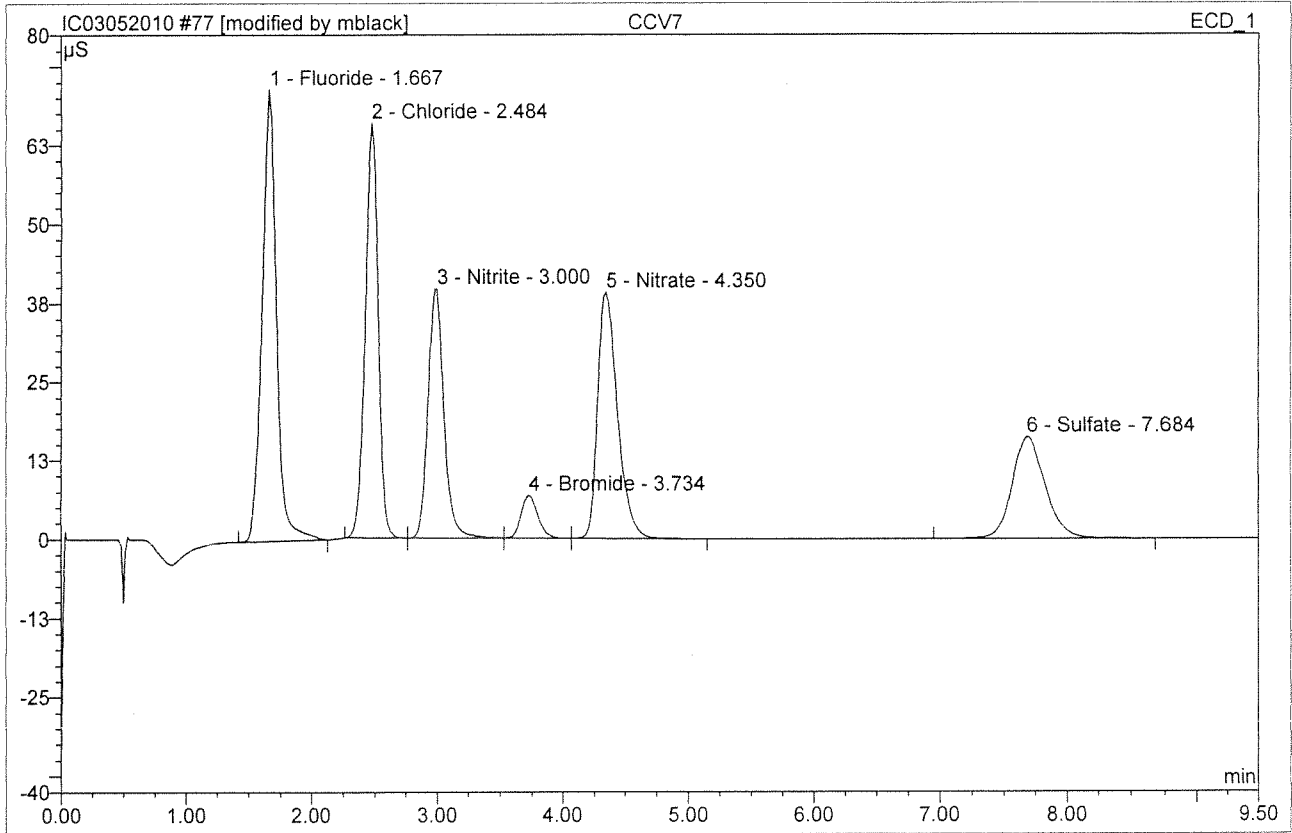
**66 CCB6****CCB6**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB6            | Injection Volume: | 200.0  |
| Vial Number:     | 63              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|-------------------------|--------------------------------------|---------------|--------|------|
| Total: |                 |           | 0.000                   | 0.000                                | 0.00          | 0.000  |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>77 CCV7</b>   |                 |                   |        |
| <b>CCV7</b>      |                 |                   |        |
| Sample Name:     | CCV7            | Injection Volume: | 200.0  |
| Vial Number:     | 74              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

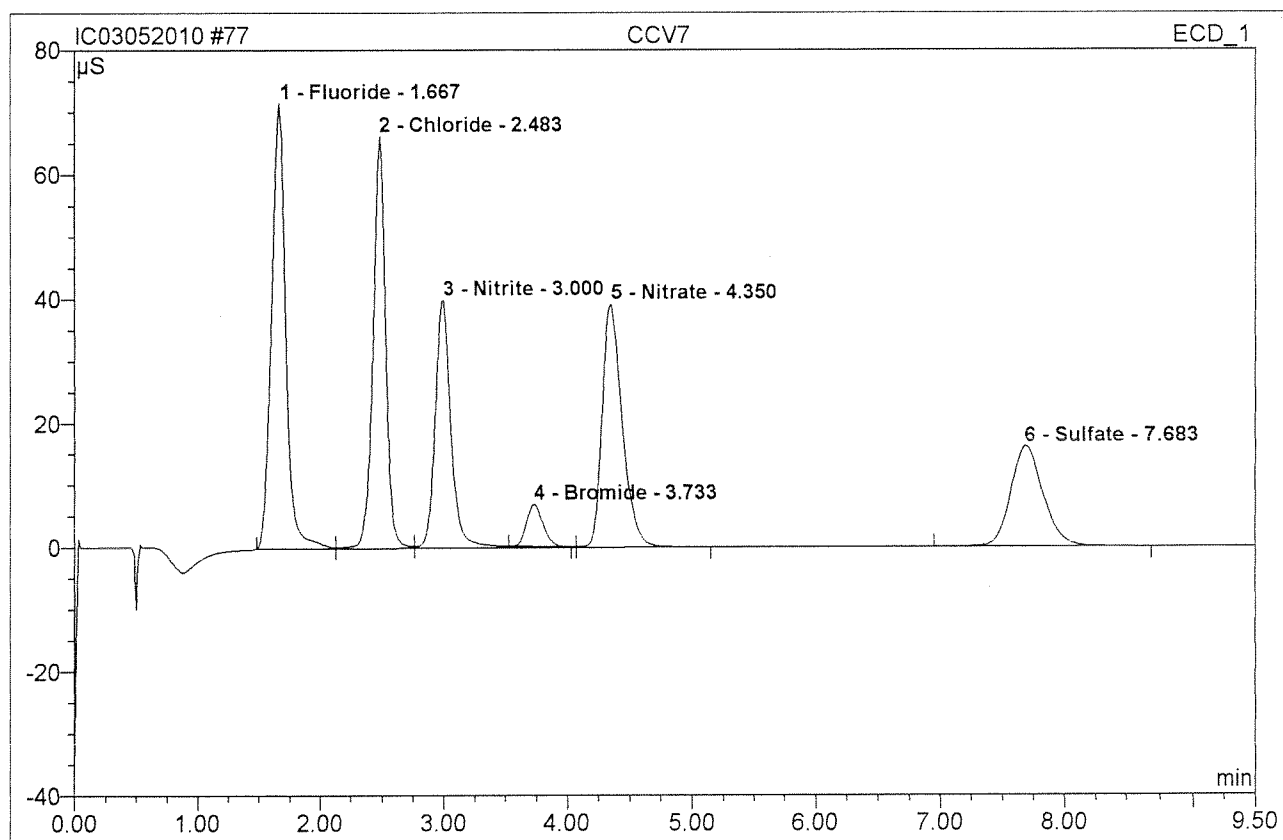


| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount                | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------------------|------|
| 1             | 1.67         | Fluoride  | 71.716    | 9.412       | 26.12      | 4.919 <del>78%</del>  | BMB* |
| 2             | 2.48         | Chloride  | 65.906    | 7.682       | 21.32      | 4.926 <del>99%</del>  | BM*  |
| 3             | 3.00         | Nitrite   | 39.609    | 5.811       | 16.13      | 2.013 <del>100%</del> | M*   |
| 4             | 3.73         | Bromide   | 6.802     | 1.047       | 2.91       | 1.954 <del>95%</del>  | M*   |
| 5             | 4.35         | Nitrate   | 39.082    | 7.221       | 20.04      | 1.960 <del>98%</del>  | MB*  |
| 6             | 7.68         | Sulfate   | 16.147    | 4.862       | 13.49      | 4.941 <del>97%</del>  | BMB  |
| <b>Total:</b> |              |           | 239.262   | 36.036      | 100.00     | 20.713                |      |

Att:       

5/25/10

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>77 CCV7</b>   |                 |                   |        |
| <b>CCV7</b>      |                 |                   |        |
| Sample Name:     | CCV7            | Injection Volume: | 200.0  |
| Vial Number:     | 74              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.67            | Fluoride  | 71.631       | 9.398          | 25.68         | 4.912  | BM   |
| 2             | 2.48            | Chloride  | 66.257       | 7.885          | 21.54         | 5.056  | M    |
| 3             | 3.00            | Nitrite   | 39.892       | 6.116          | 16.71         | 2.118  | M    |
| 4             | 3.73            | Bromide   | 6.779        | 1.038          | 2.84          | 1.938  | Rd   |
| 5             | 4.35            | Nitrate   | 39.187       | 7.298          | 19.94         | 1.981  | MB   |
| 6             | 7.68            | Sulfate   | 16.147       | 4.862          | 13.29         | 4.941  | BMB  |
| <b>Total:</b> |                 |           | 239.894      | 36.598         | 100.00        | 20.946 |      |

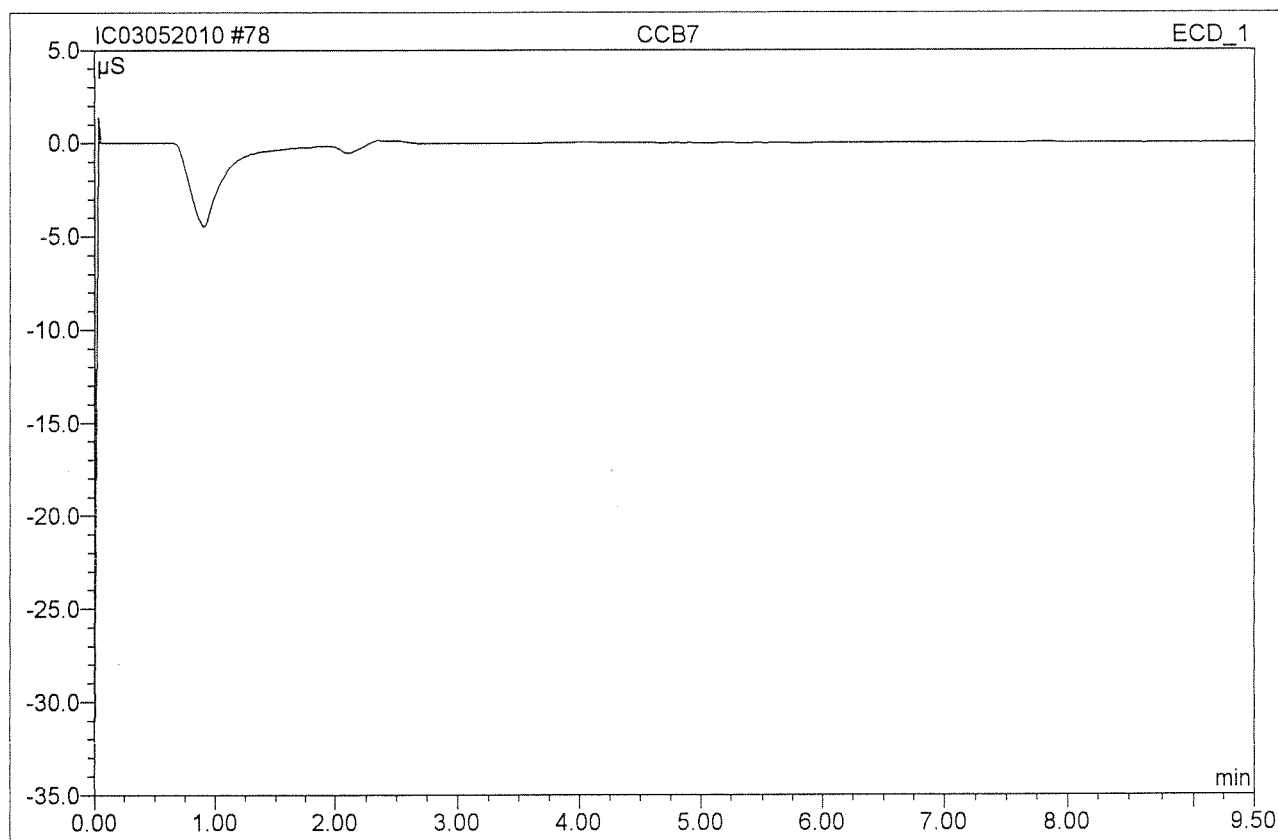
Before

MAY 21 2010



**78 CCB7****CCV7**

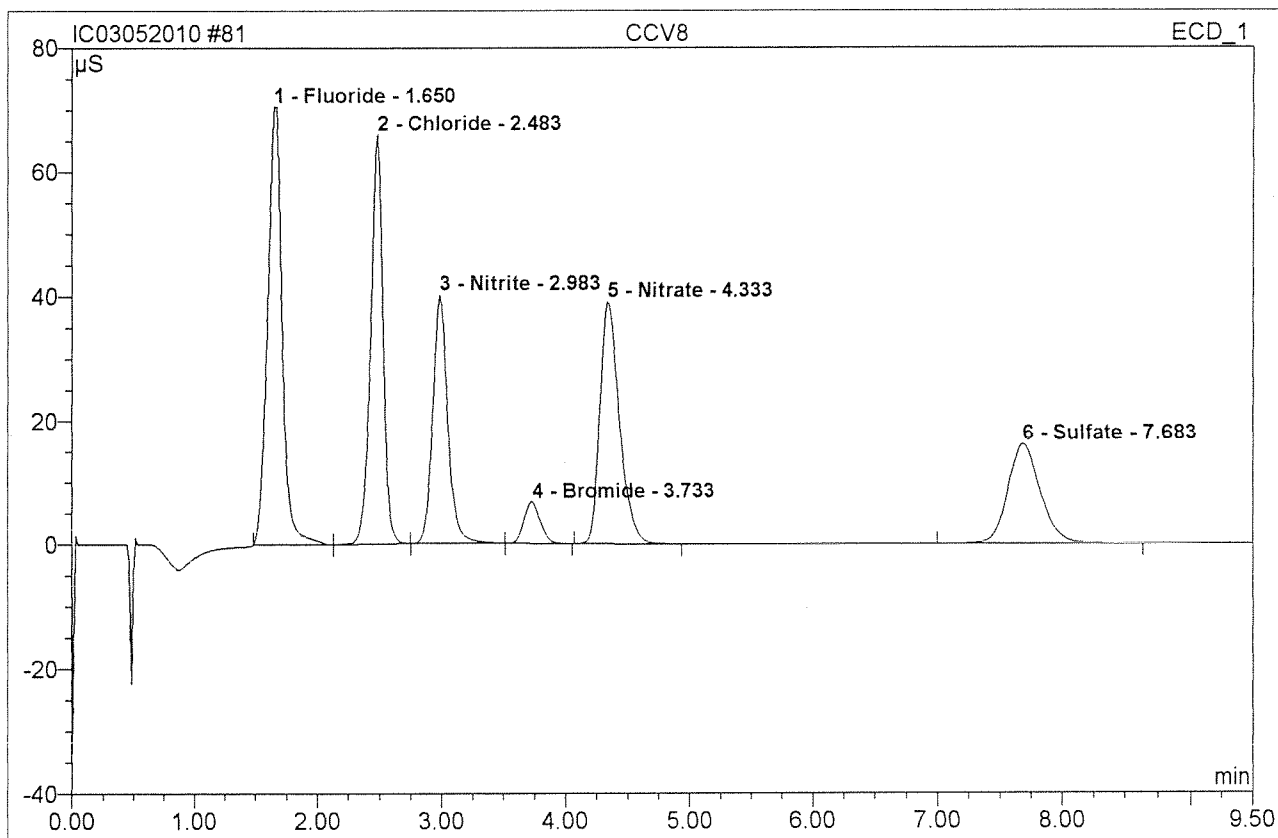
|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB7            | Injection Volume: | 200.0  |
| Vial Number:     | 75              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:36 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|--------------|----------------|----------------|--------|------|
| Total: |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

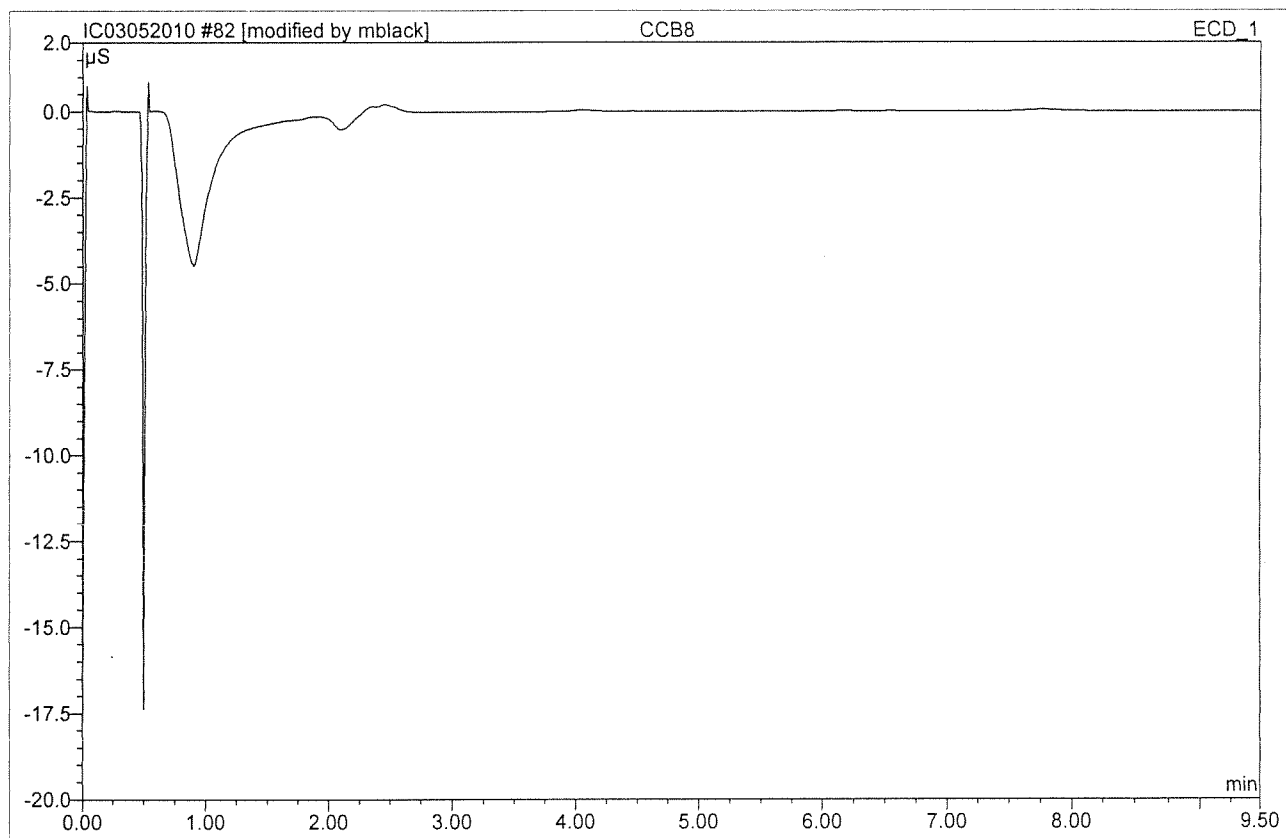
**81 CCV8****CCV8**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCV8           | Injection Volume: | 200.0  |
| Vial Number:     | 78             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:12 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount     | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|------------|------|
| 1             | 1.65            | Fluoride  | 70.499       | 9.430          | 26.15         | 4.928 99%  | BMb  |
| 2             | 2.48            | Chloride  | 65.942       | 7.716          | 21.40         | 4.948 99%  | bMb  |
| 3             | 2.98            | Nitrite   | 40.008       | 5.785          | 16.04         | 2.003 100% | bMb  |
| 4             | 3.73            | Bromide   | 6.713        | 1.039          | 2.88          | 1.940 77%  | bMB  |
| 5             | 4.33            | Nitrate   | 39.007       | 7.218          | 20.02         | 1.959 95%  | BMB  |
| 6             | 7.68            | Sulfate   | 16.167       | 4.866          | 13.50         | 4.945 99%  | BMB  |
| <b>Total:</b> |                 |           | 238.336      | 36.055         | 100.00        | 20.723     |      |

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>82 CCB8</b>   |                |                   |        |
| <b>CCB8</b>      |                |                   |        |
| Sample Name:     | CCB8           | Injection Volume: | 200.0  |
| Vial Number:     | 79             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



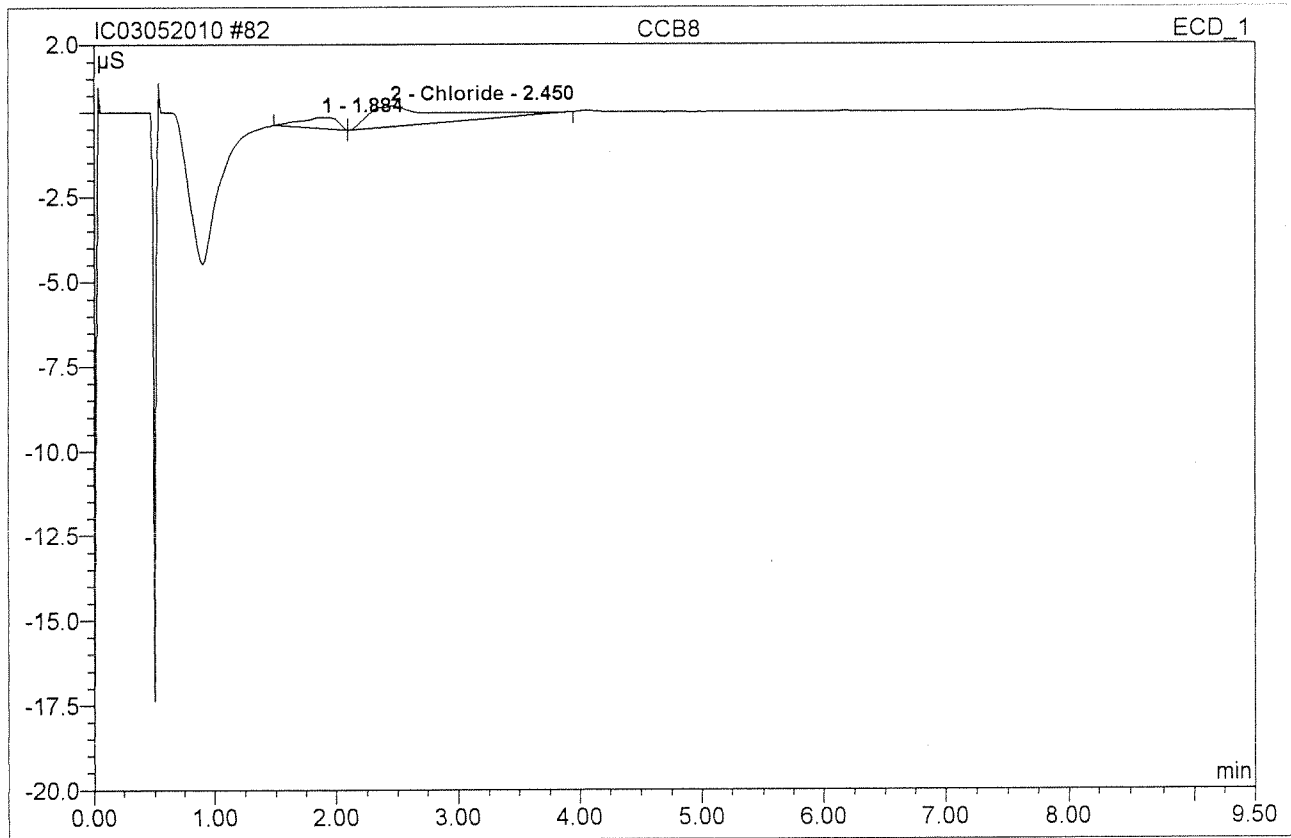
| No.    | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

(18)

5/25/10

MAY 21 2010

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>82 CCB8</b>   |                |                   |        |
| <b>CCB8</b>      |                |                   |        |
| Sample Name:     | CCB8           | Injection Volume: | 200.0  |
| Vial Number:     | 79             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.88            | n.a.      | 0.332        | 0.119          | 21.04         | n.a.   | BMB  |
| 2             | 2.45            | Chloride  | 0.622        | 0.446          | 78.96         | 0.286  | bMB  |
| <b>Total:</b> |                 |           | 0.954        | 0.565          | 100.00        | 0.286  |      |

Before

MAY 21 2010



Work Request # <sup>Original</sup> (K3898) K4455 K4467 K4474  
 Tier: III III III I  
 Date Analyzed: 05/10/10  
 Analyst: Hawyer  
 Analysis: NH<sub>3</sub> - 350.1 / 6N4500-NH<sub>3</sub> G 199824

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

12. K3898 - due date 05/10/10

Final Approved by: [Signature] Date: 5/10/10 DQREPORT  
 OTH 05/10/10

III
III
III
I

K3898,
K4455,
K4467,
K4574

# BRAN+LUEBBE

Post-run report

|                            |                                 |
|----------------------------|---------------------------------|
| Name of Run : 100510B      | Name of Analysis : Ammonia      |
| Date of Report : 5/10/2010 | System No. : 1                  |
| Date of Run : 5/10/2010    | Type of System : AA3            |
| Operator :                 | Start/Stop time : 10:02 - 11:09 |
| Comment :                  |                                 |

|                  |          |   |
|------------------|----------|---|
| Channel :        | 2        | <i>LCS ID#: B+LNH<sub>3</sub>/, -34-II TV=14.3</i>        |
| Method :         | Method 2 | <i>Spike ID#: A+LNH<sub>3</sub>/, -72-II TV=22.00</i>     |
| Unit :           | mg/L     | <i>Curve, CCV ID#: B+LNH<sub>3</sub>/, -55-I TV=22.00</i> |
| Calibr. Fit :    | Linear   | <i>MBMS=2.00</i>  |
| Corr. Coeff. :   | 1.0000   |   |
| Base :           | -20223   |   |
| Gain :           | 20       |   |
| Sensitivity :    | 0.4382   |   |
| Sample Limit 1 : |          |   |
| Sample Limit 2 : |          |   |

| Pk | Cup | Sample Id           | Value                    |
|----|-----|---------------------|--------------------------|
| 0  | 0   | B Baseline          | -0.0126                  |
| 1  | 1   | P Primer            | 4.9888                   |
| 2  | 1   | D Drift             | 4.9964                   |
| 3  | 1   | C 5.00              | 5.0040                   |
| 4  | 2   | C 2.00              | 1.9890                   |
| 5  | 3   | C 0.50              | 0.5032                   |
| 6  | 4   | C 0.05              | 0.0524                   |
| 7  | 5   | C 0                 | 0.0013                   |
| 8  | 0   | B Baseline          | -0.0126                  |
| 9  | 1   | H1 High             | 4.9989                   |
| 10 | 0   | L1 Low              | -0.0106                  |
| 11 | 0   | L1 Low              | -0.0106                  |
| 12 | 5   | QC2 CCB1            | -0.0018 <i>&lt;0.020</i> |
| 13 | 2   | QC1 CCV1            | 1.9610 <i>1.96 98%</i>   |
| 14 | 10  | QC3 LCS1*10         | 1.4124 <i>14.1 99%</i>   |
| 15 | 10  | QC3 LCS1dup*10      | 1.4102 <i>14.1 99%</i>   |
| 16 | 11  | S MB MS             | 2.0248 <i>2.02 101%</i>  |
| 17 | 0   | N Null              | -0.0131N                 |
| 18 | 5   | QC2 MB1             | -0.0059 <i>&lt;0.020</i> |
| 19 | 12  | S k1003898-001      | 2.9587 <i>2.96</i>       |
| 20 | 13  | S k1003898-001d     | 2.9528 <i>2.95</i>       |
| 21 | 49  | S k1003898-001ms*2  | 3.4651 <i>6.93 99%</i>   |
| 22 | 50  | S k1003898-001msd*2 | 3.4760 <i>6.95 100%</i>  |
| 23 | 0   | B baseline          | -0.0126                  |
| 24 | 5   | QC2 CCB2            | 0.0058 <i>&lt;0.020</i>  |
| 25 | 2   | QC1 CCV2            | 1.9637 <i>1.96 98%</i>   |
| 26 | 16  | S k1003898-002      | 3.6456 <i>3.65</i>       |

$\bar{x} = 2.96 - RPD < 1\%$   
*(Spike = 0.1ml x 100ppm) / 2.50 = 4.00ppm*

*5/10/10*  
*Ammonia*

|    |    |     |                  |         |           |
|----|----|-----|------------------|---------|-----------|
| 27 | 17 | S   | k1003898-003     | 3.0367  | 3.04      |
| 28 | 18 | S   | k1003898-004     | 3.3603  | 3.36      |
| 29 | 19 | S   | k1003898-005     | 3.0344  | 3.03      |
| 30 | 51 | S   | k1003898-006*25  | 1.1572  | 28.9      |
| 31 | 52 | S   | k1003898-007*25  | 0.9865  | 24.7      |
| 32 | 53 | S   | k1003898-008*25  | 1.0969  | 27.4      |
| 33 | 54 | S   | k1003898-009*25  | 1.1434  | 28.6      |
| 34 | 55 | S   | k1003898-010*25  | 1.2065  | 30.2      |
| 35 | 0  | B   | BASELINE         | -0.0126 |           |
| 36 | 5  | QC2 | CCB-3            | -0.0029 | <0.020    |
| 37 | 2  | QC1 | CCV-3            | 1.9651  | 1.97 99%  |
| 38 | 25 | S   | k1004455-001     | -0.0003 | <0.020    |
| 39 | 26 | S   | k1004455-001d    | -0.0006 | <0.020    |
| 40 | 27 | S   | k1004455-001ms   | 2.0642  | 2.06 103% |
| 41 | 28 | S   | k1004455-001msd  | 2.0607  | 2.06 103% |
| 42 | 29 | S   | k1004455-002     | 0.0287  | 0.0297    |
| 43 | 30 | S   | k1004467-001diss | 0.0009  | <0.020    |
| 44 | 31 | S   | k1004574-001     | 0.0016  | <0.020    |
| 45 | 56 | S   | k1004574-002*25  | 0.7448  | 18.6      |
| 46 | 33 | S   | k1004574-003     | 0.0006  | <0.020    |
| 47 | 0  | B   | Baseline         | -0.0126 |           |
| 48 | 5  | QC2 | CCB4             | -0.0045 | <0.020    |
| 49 | 2  | QC1 | CCV4             | 1.9654  | 1.97 99%  |
| 50 | 1  | D   | Drift            | 4.9964  |           |
| 51 | 0  | B   | Baseline         | -0.0126 |           |
| 52 | 0  | B   | FinalBase        | -0.0126 |           |

*on 5/2/10*  
*x = ND RPD = -*  
*(filtered in the field)*

QC Limits

|         |        |   |
|---------|--------|---|
| Channel | :      | 2 |
| QC 1    | Unused |   |
| QC 2    | Unused |   |
| QC 3    | Unused |   |
| QC 4    | Unused |   |
| QC 5    | Unused |   |
| QC 6    | Unused |   |
| QC 7    | Unused |   |
| QC 8    | Unused |   |
| QC 9    | Unused |   |
| QC10    | Unused |   |

CORRECTIONS

|            |   |     |
|------------|---|-----|
| Channel    | : | 2   |
| Baseline   | : | Yes |
| Drift      | : | Yes |
| Carry over | : | Yes |
| %:         |   | 0.3 |

*5/2/10*  
*5/10/10*  
*05/10/10*

*Ferguson*

\* ... Sample offscale  
 + ... Result higher than sample limit

BRAN+LUEBBE AACE 6.02

Post-run Report

- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

*571  
5/10/10*

*05/10/10  
Fauger*



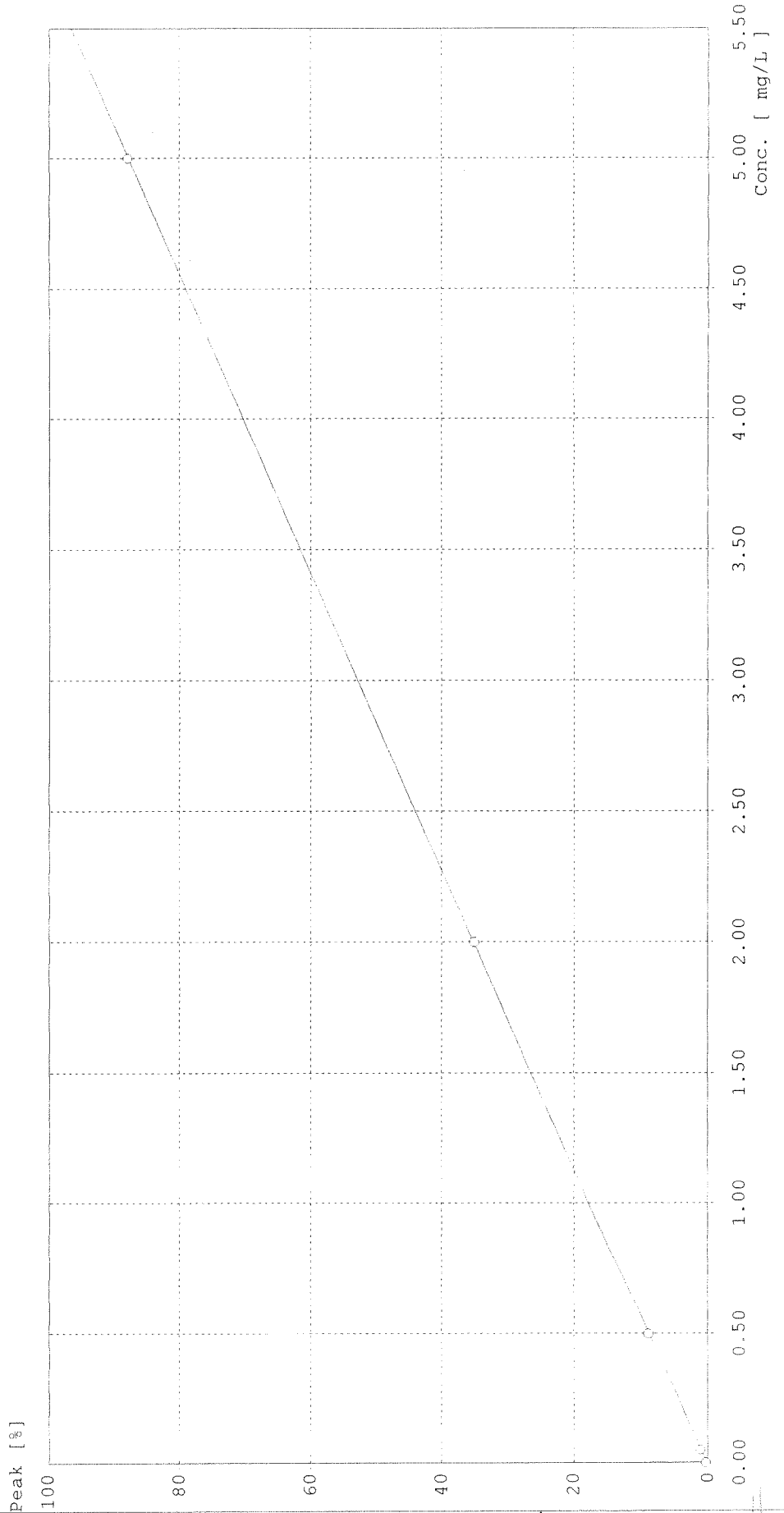
# BRAN+LUEBBE

Calibration Curve

Name of run : 100510B.run  
Comment :

Name of analysis : Ammonia

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.5828E-001      b=8.7087E-005  
Corr. coeff. : 1.0000



*05/10/10  
Hayman  
5/10/10*

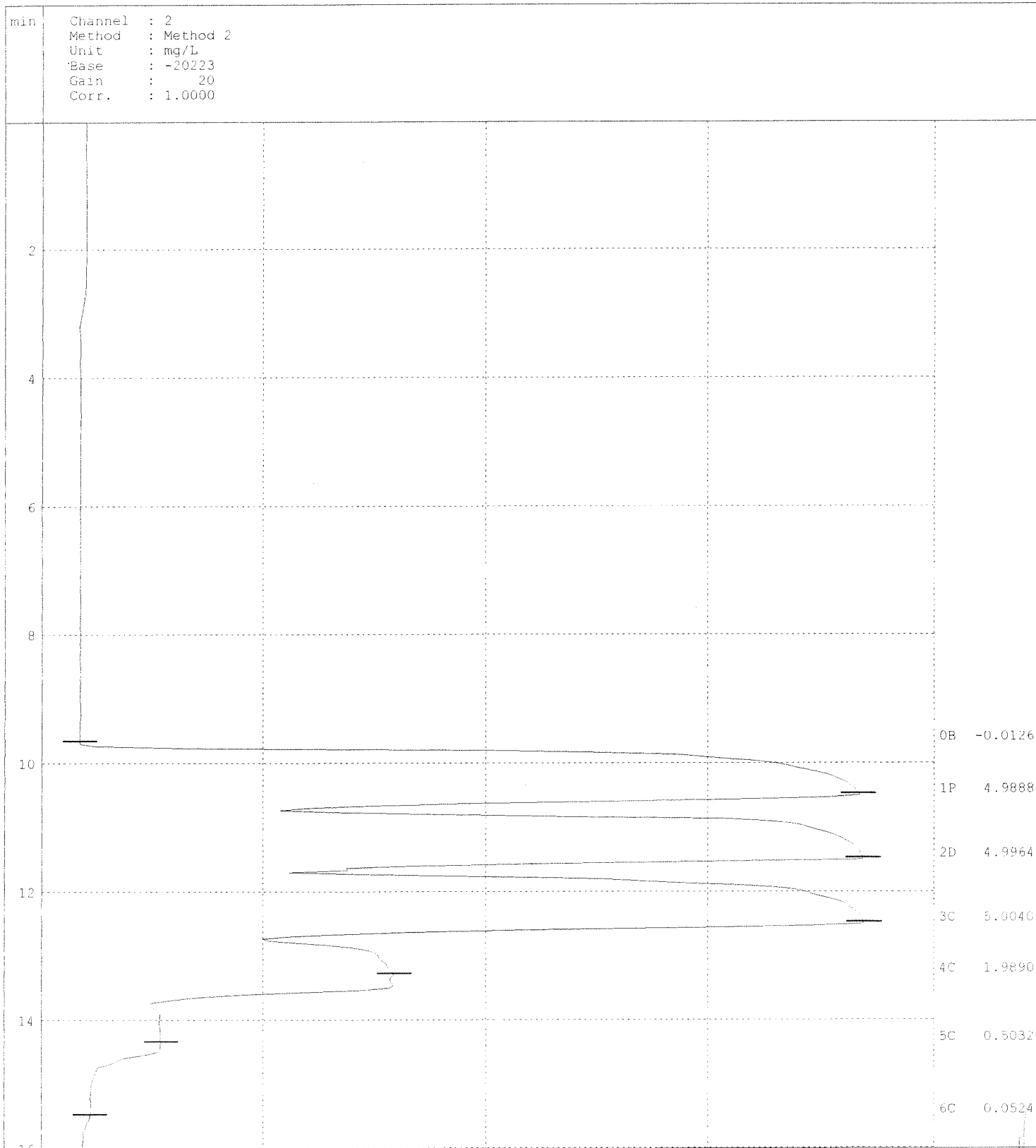
# BRAN+LUEBBE

Post-run chart

Name of run :100510B.RUN

Name of analysis :Ammonia

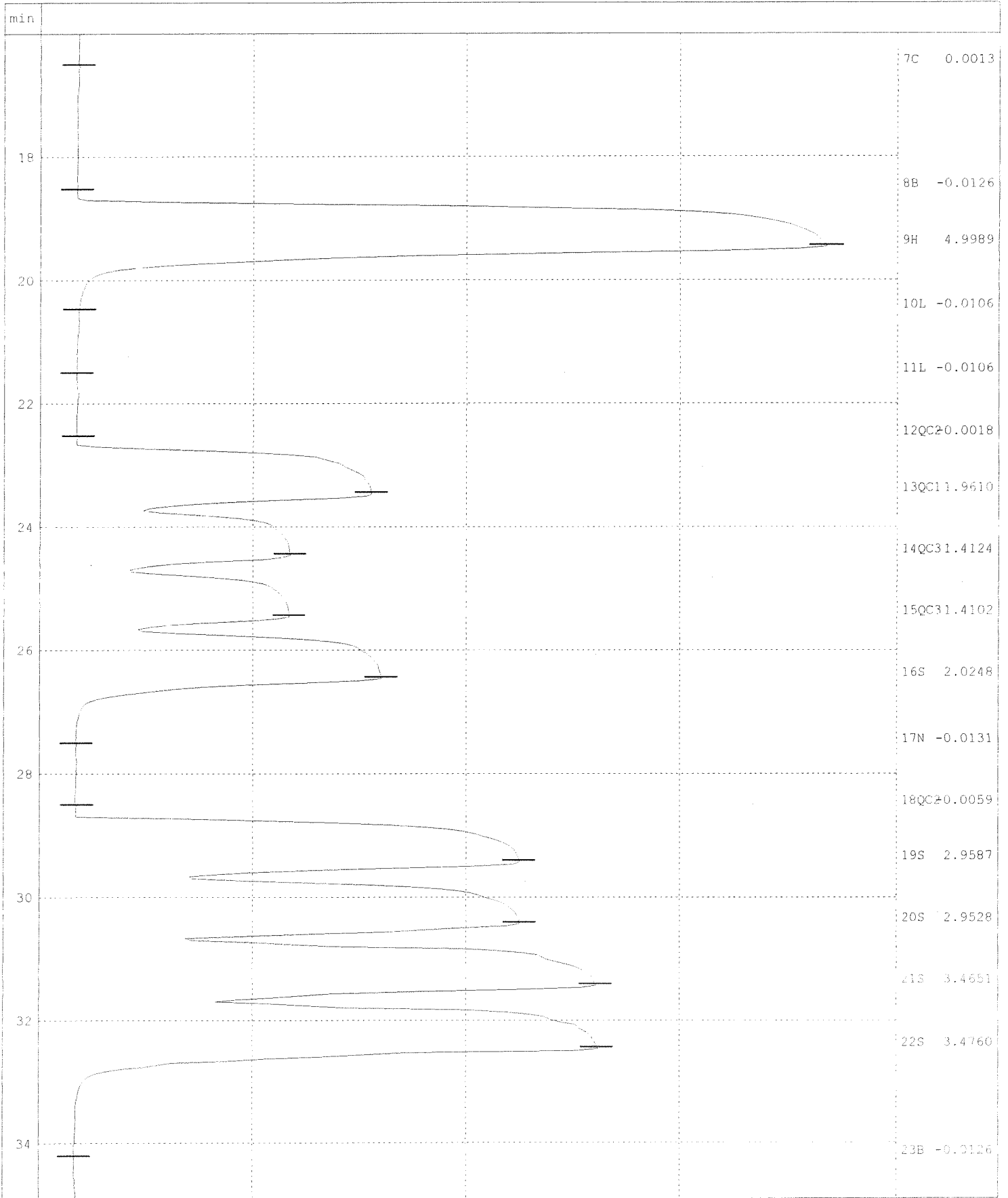
Comment :



05/10/10  
*Handwritten signature*  
*Handwritten signature*

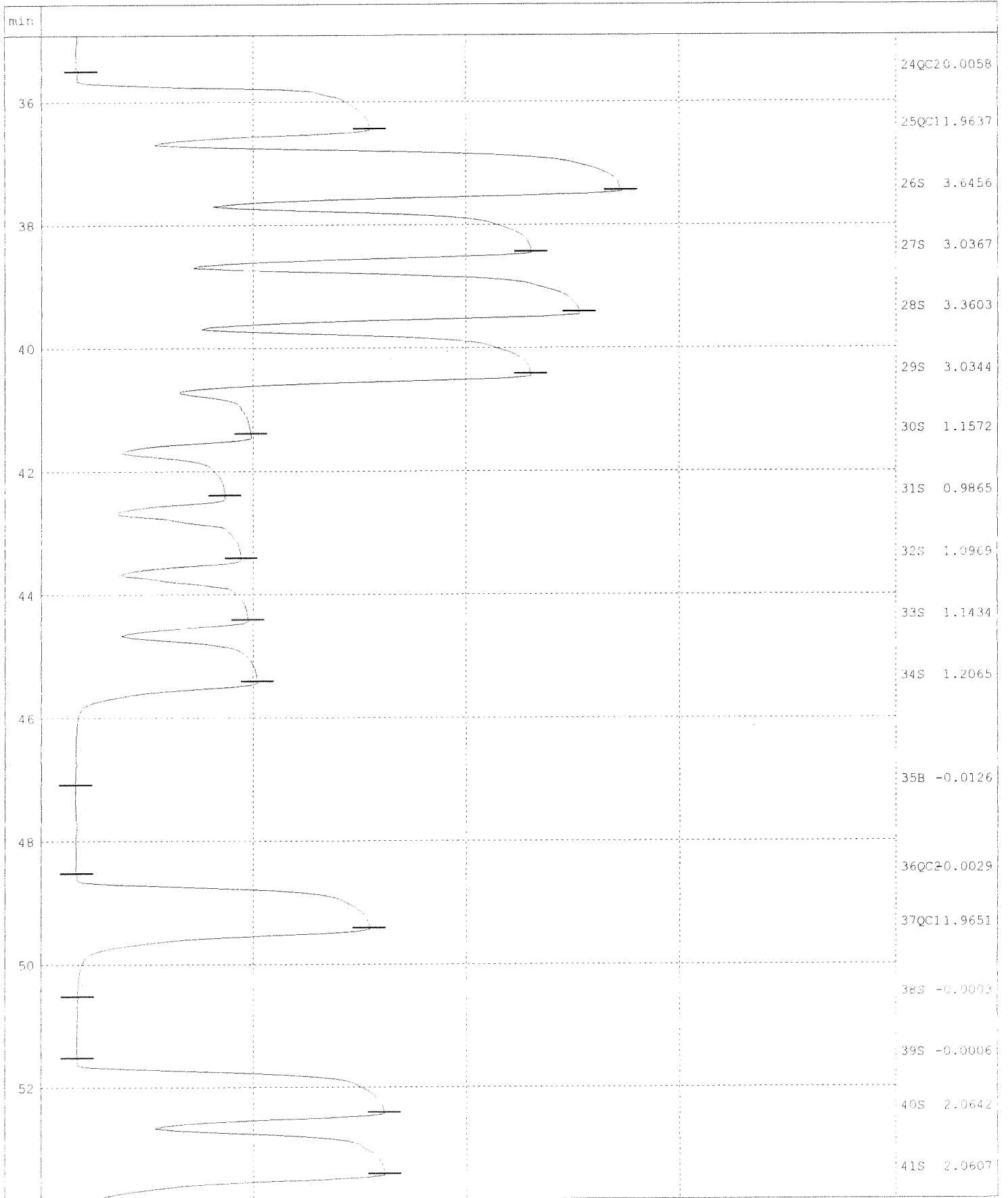
Name of run :100510B.RUN  
Comment :

Name of analysis :Ammonia



Name of run :100510B.RUN  
Comment :

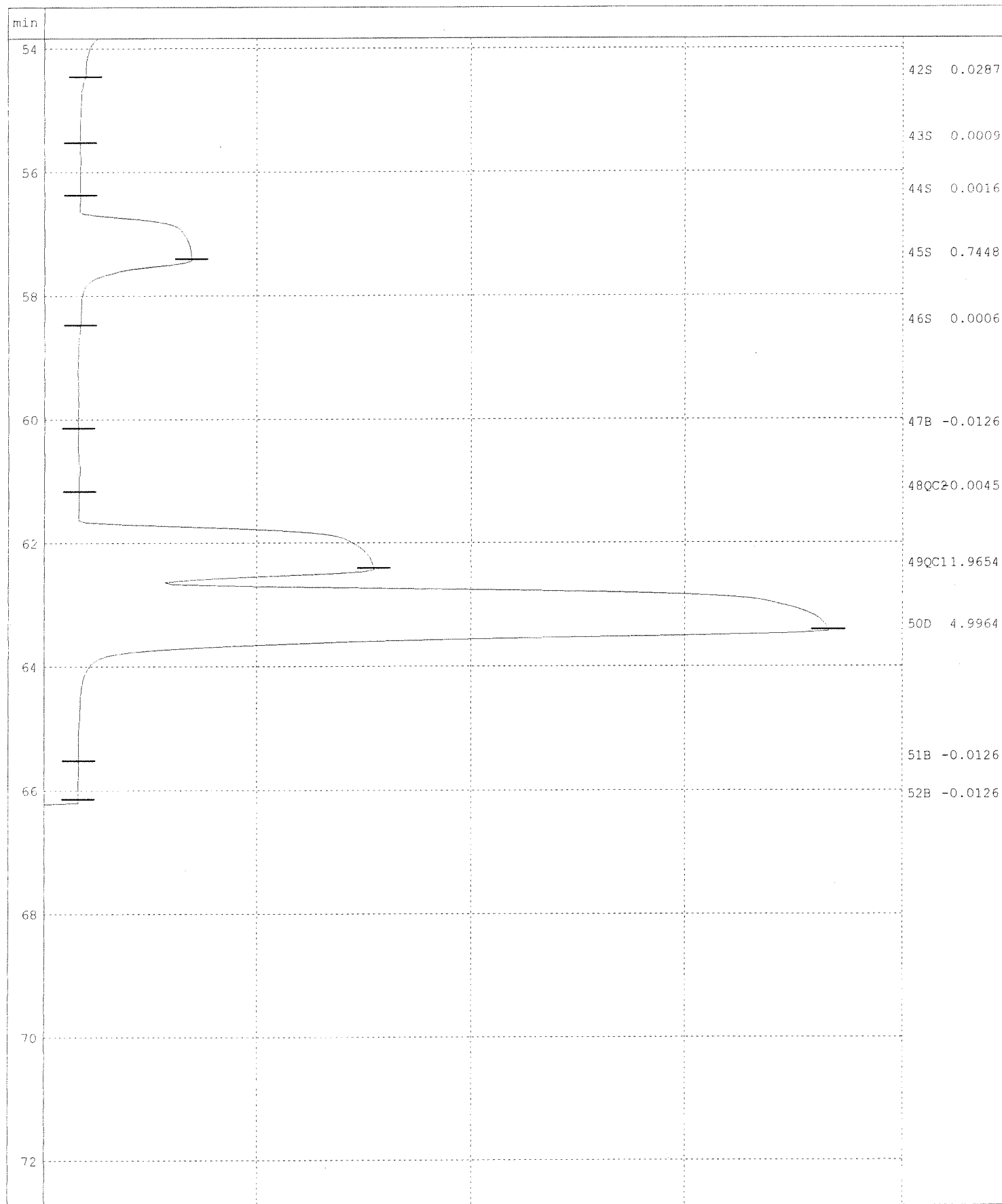
Name of analysis :Ammonia





Name of run :100510B.RUN  
Comment :

Name of analysis :Ammonia



Original  
 Work Request # (K7767)  
 Tier: 2  
 Date Analyzed: 05/06/10  
 Analyst: Huyun  
 Analysis: NO<sub>2</sub> - 353.2

199434

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 5/7/10 DQREPORT

K4467

# BRAN+LUEBBE

Post-run report

Name of Run : 100506A  
Date of Report : 5/6/2010  
Date of Run : 5/6/2010  
Operator :  
Comment :

Name of Analysis : Nitrite.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 08:46 - 09:22

Channel : 2  
Method : Method 2  
Unit :  
Calibr. Fit : Linear  
Corr. Coeff. : 1.0000  
Base : -21488  
Gain : 5  
Sensitivity : 1.5640  
Sample Limit 1 :  
Sample Limit 2 :

LCS ID# : AN/11-27-Q TV = 4.00  
(0.4ml x 100ppm / 10ml = 4.00ppm)  
Spike ID# : B+LN03/1-94-T TV = 2.00  
Curve, CCV ID# : B+LN03/1-80-Q TV = 2.00

| Pk | Cup | Sample Id         | Value   |
|----|-----|-------------------|---------|
| 0  | 0   | B Baseline        | 0.0045  |
| 1  | 1   | P Primer          | 4.9557  |
| 2  | 1   | D Drift           | 5.0118  |
| 3  | 1   | C 5.00            | 5.0102  |
| 4  | 2   | C 2.00            | 1.9751  |
| 5  | 3   | C 0.50            | 0.4943  |
| 6  | 4   | C 0.05            | 0.0574  |
| 7  | 5   | C 0               | 0.0129  |
| 8  | 1   | H1 High           | 4.9834  |
| 9  | 0   | L1 Low            | 0.0226  |
| 10 | 0   | L1 Low            | 0.0175  |
| 11 | 5   | QC2 CCB1          | 0.0179  |
| 12 | 2   | QC1 CCV1          | 1.9559  |
| 13 | 10  | QC3 LCS1          | 3.9888  |
| 14 | 0   | N Null            | 0.0253N |
| 15 | 5   | QC2 MB1           | 0.0182  |
| 16 | 11  | S k1004467-001    | 0.0348  |
| 17 | 12  | S k1004467-001d   | 0.0397  |
| 18 | 13  | S k1004467-001ms  | 1.9964  |
| 19 | 14  | S k1004467-001msd | 2.0464  |
| 20 | 0   | B Baseline        | 0.0188  |
| 21 | 5   | QC2 CCB2          | 0.0210  |
| 22 | 2   | QC1 CCV2          | 1.9866  |
| 23 | 1   | D Drift           | 5.0587  |
| 24 | 0   | B Baseline        | 0.0211  |
| 25 | 0   | B FinalBase       | 0.0212  |

< 0.050  
1.96 98%  
3.99 100%  
< 0.050  
< 0.050  
2.00 100%  
2.05 103%  
< 0.050  
1.99 100%

$\bar{x} = ND$  APD = -

5/4/10  
5/4/10

05/06/10  
Huyer

## QC Limits

|         |        |   |
|---------|--------|---|
| Channel | :      | 2 |
| QC 1    | Unused |   |
| QC 2    | Unused |   |
| QC 3    | Unused |   |
| QC 4    | Unused |   |
| QC 5    | Unused |   |
| QC 6    | Unused |   |
| QC 7    | Unused |   |
| QC 8    | Unused |   |
| QC 9    | Unused |   |
| QC10    | Unused |   |

## CORRECTIONS

|            |   |     |
|------------|---|-----|
| Channel    | : | 2   |
| Baseline   | : | No  |
| Drift      | : | No  |
| Carry over | : | No  |
| %:         |   | 0.0 |

\* ... Sample offscale  
+ ... Result higher than sample limit  
- ... Result lower than sample limit  
P ... Standard passed  
F ... Standard failed  
N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

5/7/10

05/06/10  
Thermyer



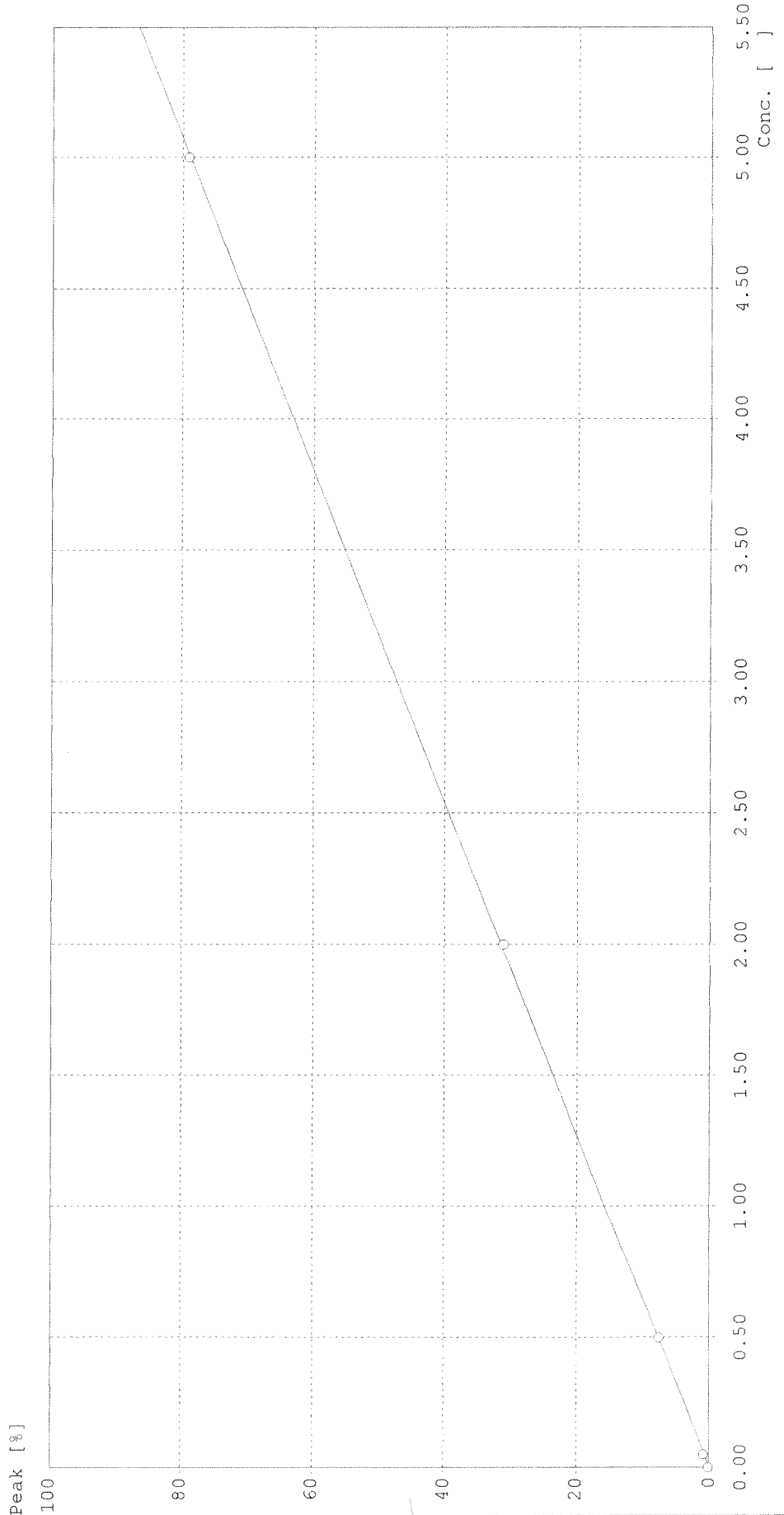
# BRAN+LUEBBE

Calibration Curve

Name of run : 100506A.run  
Comment :

Name of analysis : Nitrite.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.2544E-001      b=9.6610E-005  
Corr. coeff. : 1.0000



*5/7/10*      *05/06/10*  
*Fluoye*

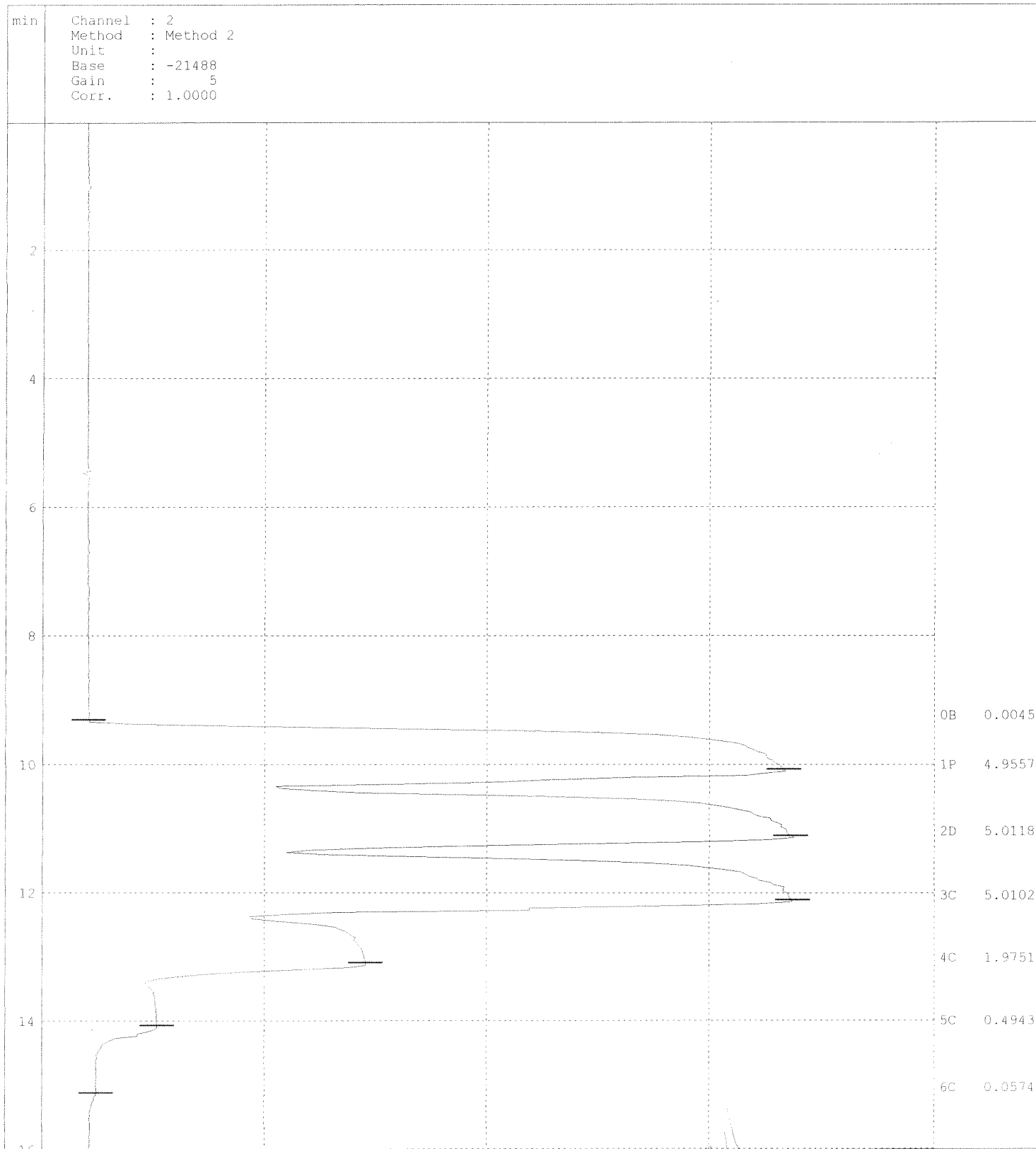
# BRAN+LUEBBE

Post-run chart

Name of run :100506A.RUN

Name of analysis :Nitrite.ANL

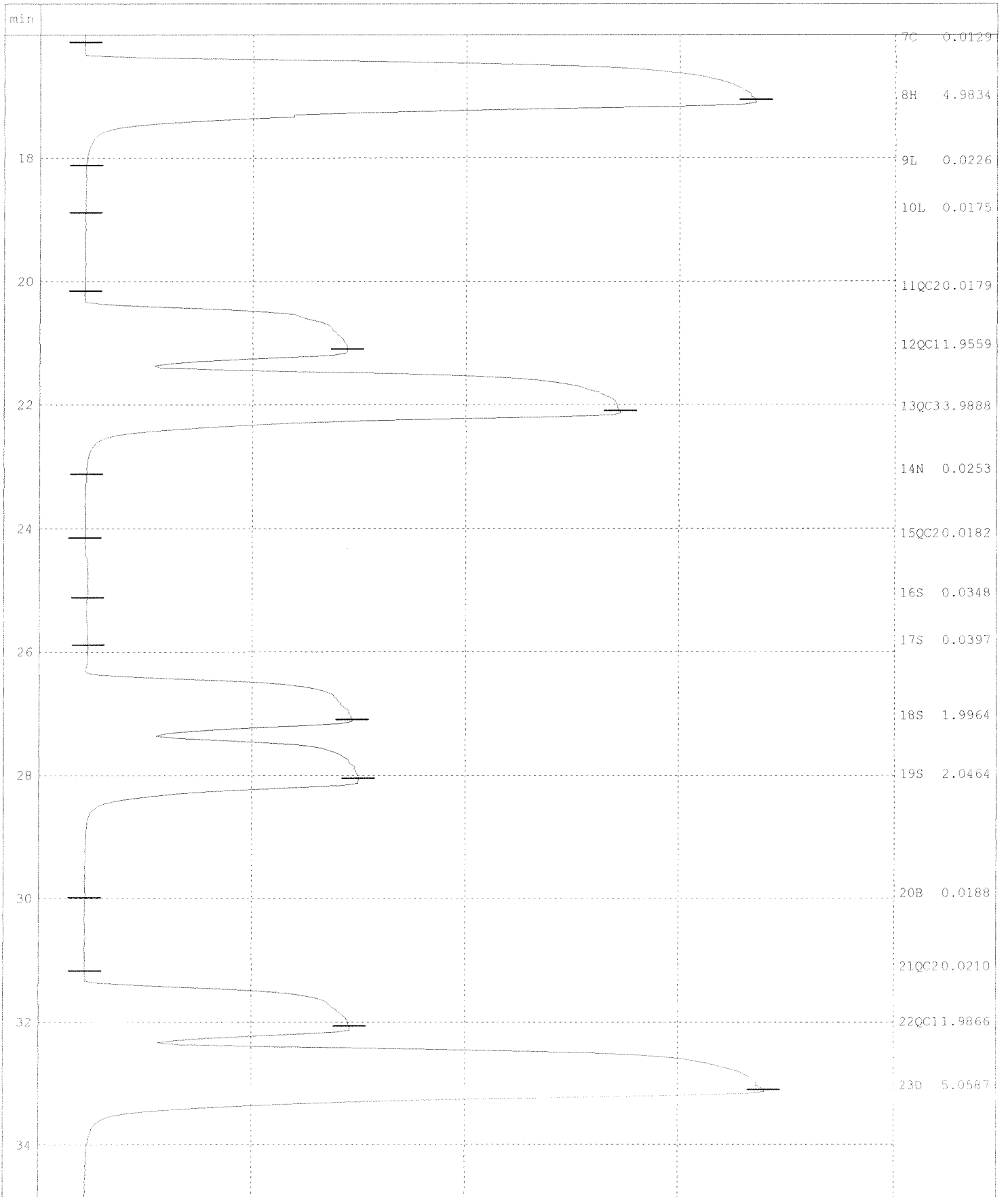
Comment :



*Handwritten notes:*  
5/2/10  
05/06/10  
H. Meyer

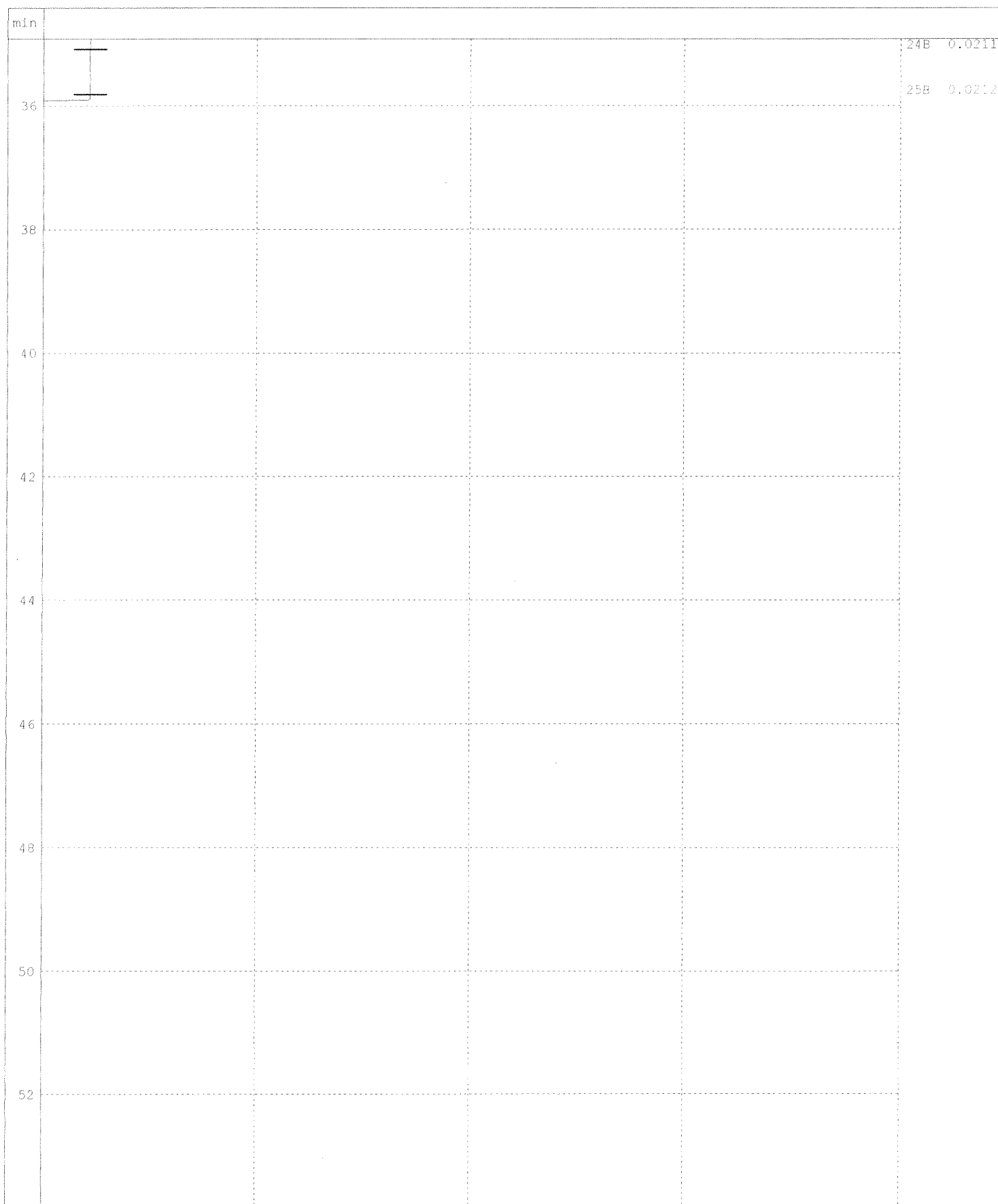
Name of run :100506A.RUN  
Comment :

Name of analysis :Nitrite.ANL



Name of run :100506A.RUN  
Comment :

Name of analysis :Nitrite.ANL





Work Request # <sup>Original</sup> (K4057) K4201 K4378 K4428 K4444 K4452 K4467  
 Tier: I III J I V II V  
 Date Analyzed: 05/06/10  
 Analyst: Tracy W  
 Analysis: NO<sub>2</sub>/NO<sub>3</sub> - 353.2 199437

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate?  yes/no/NA
- 2. Holding times met for all analyses and for all samples?  yes/no/NA
- 3. Are calculations correct?  yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
- 5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
- 6. Are all service requests that apply attached?  yes/no/NA
- 7. Are all samples labelled correctly?  yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
- 9. Are detection limits and units reported correctly?  yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
- 11. Is the unused space on the benchsheet crossed out?  yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: SAH Date: 5/7/10 DQREPORT

I III I I IV III V  
 K4057, K4201, K4378, K4428, K4444, K4452, K4461  
 ↓  
 diss.

BRAN+LUEBBE ANAL 8.02

Printed on Request

# BRAN+LUEBBE

Post-run report

Name of Run : 100506C Name of Analysis : NO2+NO3.ANL  
 Date of Report : 5/6/2010 System No. : 1  
 Date of Run : 5/6/2010 Type of System : AA3  
 Operator : Start/Stop time : 10:25 - 11:28  
 Comment :

|                |   |          |   |           |
|----------------|---|----------|---|-----------|
| Channel        | : | 2        | LCS ID# : B+LNO <sub>3</sub> /I-94-U        | T.V.=14.8 |
| Method         | : | Method 2 | Spike ID# : B+LNH <sub>3</sub> /I-34-I      | T.V.=2.00 |
| Unit           | : | mg/L     | Curve, CCV ID# : B+LNO <sub>3</sub> /I-84-T | T.V.=2.00 |
| Calibr. Fit    | : | Linear   | ICV ID# : B+LNO <sub>3</sub> /I-80-Q        | T.V.=2.00 |
| Corr. Coeff.   | : | 0.9999   | MBMS = 2.00                                 |           |
| Base           | : | -22018   |   |           |
| Gain           | : | 5        |   |           |
| Sensitivity    | : | 1.5547   |   |           |
| Sample Limit 1 | : |          |   |           |
| Sample Limit 2 | : |          |   |           |

| Pk | Cup | Sample Id           | Value   |
|----|-----|---------------------|---------|
| 0  | 0   | B Baseline          | 0.0084  |
| 1  | 1   | P primer            | 5.0095  |
| 2  | 1   | D Drift             | 5.0185  |
| 3  | 1   | C 5.00              | 5.0186  |
| 4  | 2   | C 2.00              | 1.9516  |
| 5  | 3   | C 0.50              | 0.5000  |
| 6  | 4   | C 0.05              | 0.0631  |
| 7  | 5   | C 0                 | 0.0167  |
| 8  | 1   | H1 High             | 5.0304  |
| 9  | 0   | L1 Low              | 0.0260  |
| 10 | 0   | L1 Low              | 0.0260  |
| 11 | 9   | QC3 ICV             | 1.9407  |
| 12 | 5   | QC2 ICB             | 0.0213  |
| 13 | 5   | QC2 CCB1            | 0.0152  |
| 14 | 2   | QC1 CCV1            | 1.9407  |
| 15 | 10  | QC4 LCS1*10         | 1.4615  |
| 16 | 10  | QC4 LCS1dup*10      | 1.4584  |
| 17 | 11  | S MB MS             | 1.9591  |
| 18 | 0   | N Null              | 0.0156N |
| 19 | 5   | QC2 MB1             | 0.0152  |
| 20 | 12  | S k1004057-001diss. | 0.0506  |
| 21 | 13  | S k1004201-001      | 0.1234  |
| 22 | 14  | S k1004201-001d     | 0.1262  |
| 23 | 15  | S k1004201-001ms    | 2.1643  |
| 24 | 0   | B Baseline          | 0.0084  |
| 25 | 5   | QC2 CCB2            | 0.0133  |
| 26 | 2   | QC1 CCV2            | 1.9490  |

K4444 = 10ml = 13.91g

1.94 97%  
 0.0213  
 0.0152  
 1.94 97%  
 1.46 99%  
 1.46 99%  
 1.96 98%

5/7/10

$\bar{x} = 0.125$  RPD = 2%

2.16 102%  
 0.0133  
 1.95 98%

05/06/10  
 Housney

|    |    |     |                  |         |        |      |
|----|----|-----|------------------|---------|--------|------|
| 27 | 16 | S   | k1004201-001msd  | 2.1579  | 2.16   | 102% |
| 28 | 17 | S   | k1004201-002     | 0.0537  | 0.054  |      |
| 29 | 18 | S   | k1004378-001     | 1.7113  | 1.71   |      |
| 30 | 19 | S   | k1004428-001*5   | 1.1304  | 5.65   |      |
| 31 | 20 | S   | k1004444-001*200 | 0.0327  | NR     |      |
| 32 | 21 | S   | k1004444-001*100 | 0.0203  | 25.00  |      |
| 33 | 22 | S   | k1004444-001*10  | -0.0268 | NR     |      |
| 34 | 23 | S   | rinse            | 0.0114  |        |      |
| 35 | 24 | S   | k1004452-001     | 0.3733  | 0.373  |      |
| 36 | 0  | B   | Baseline         | 0.0084  |        |      |
| 37 | 5  | QC2 | CCB3             | 0.0129  | 0.013  |      |
| 38 | 2  | QC1 | CCV3             | 1.9651  | 1.97   | 99%  |
| 39 | 25 | S   | k1004467-001*50  | 0.1904  |        |      |
| 40 | 26 | S   | k1004467*10      | 0.9021  | 9.02   |      |
| 41 | 27 | S   | rinse 1          | 0.0176  |        |      |
| 42 | 28 | S   | k1004109-001*50  | 0.0193  | NR     |      |
| 43 | 29 | S   | rinse            | 0.0170  |        |      |
| 44 | 0  | B   | Baseline         | 0.0084  |        |      |
| 45 | 5  | QC2 | CCB4             | 0.0105  | 0.0117 |      |
| 46 | 2  | QC1 | CCV4             | 1.9321  | 1.93   | 97%  |
| 47 | 1  | D   | Drift            | 5.0185  |        |      |
| 48 | 0  | B   | Baseline         | 0.0084  |        |      |
| 49 | 0  | B   | FinalBase        | 0.0084  |        |      |

QC Limits

| Channel | :      | 2 |
|---------|--------|---|
| QC 1    | Unused |   |
| QC 2    | Unused |   |
| QC 3    | Unused |   |
| QC 4    | Unused |   |
| QC 5    | Unused |   |
| QC 6    | Unused |   |
| QC 7    | Unused |   |
| QC 8    | Unused |   |
| QC 9    | Unused |   |
| QC10    | Unused |   |

CORRECTIONS

|            |   |     |
|------------|---|-----|
| Channel    | : | 2   |
| Baseline   | : | Yes |
| Drift      | : | Yes |
| Carry over | : | Yes |
| %:         |   | 0.1 |

*5/21/10*

- \* ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed

*05/06/10*  
*Fluor*

BRAN+LUEBBE AACE 6.02

Post-run Report

N ... Value not calculated or not used  
R ... Resample after offscale  
M ... Peak marker moved manually  
D ... Diluted sample

\*\* <END OF REPORT> \*\*

57d  
5/7/10

09/06/10  
Haugen



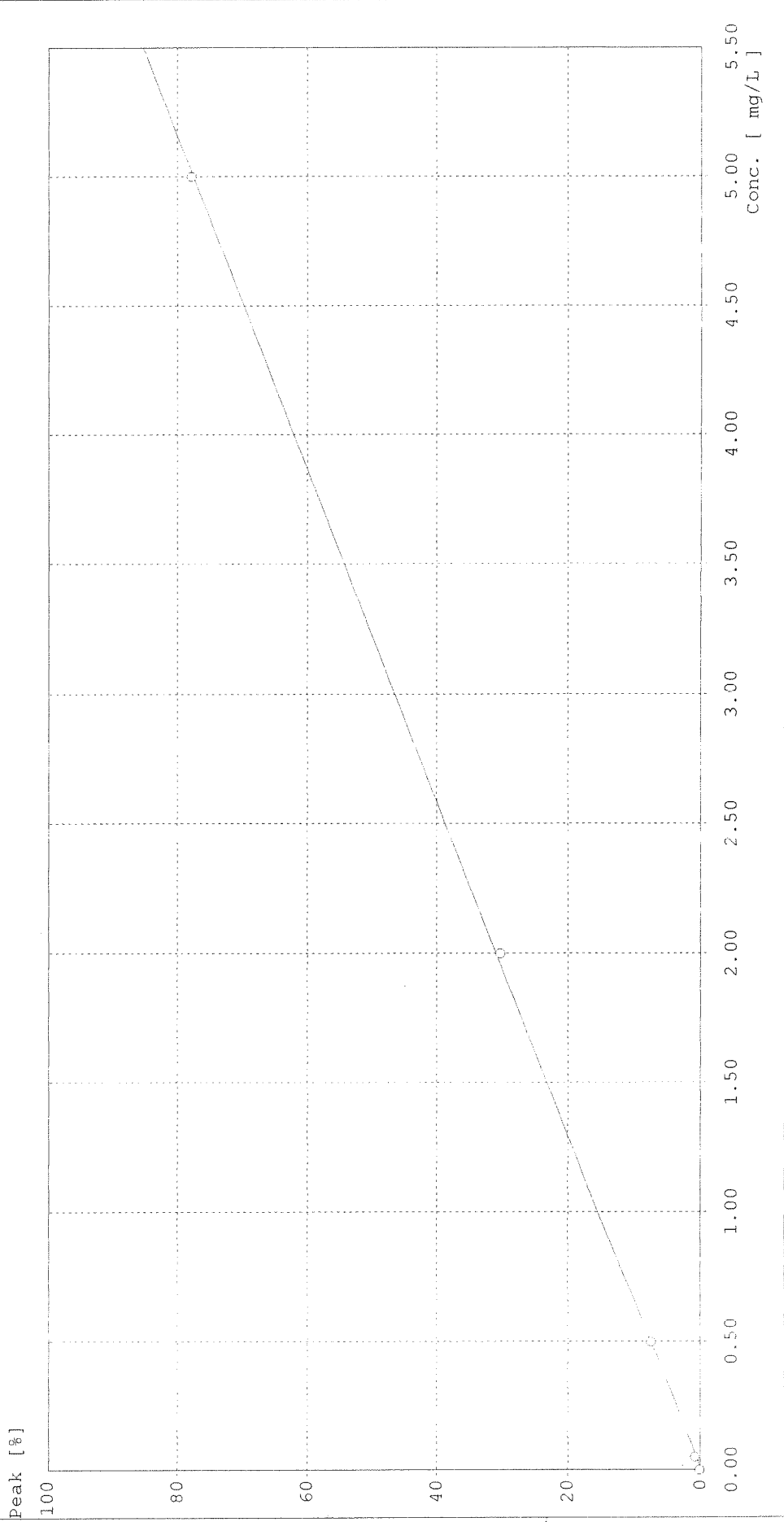
# BRAN+LUEBBE

Calibration Curve

Name of analysis : NO2+NO3.ANL

Name of run : 100506c.run  
Comment :

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-3.0349E-001    b=9.8166E-005  
Corr. coeff. : 0.9999



*SAT*  
*5/7/10*

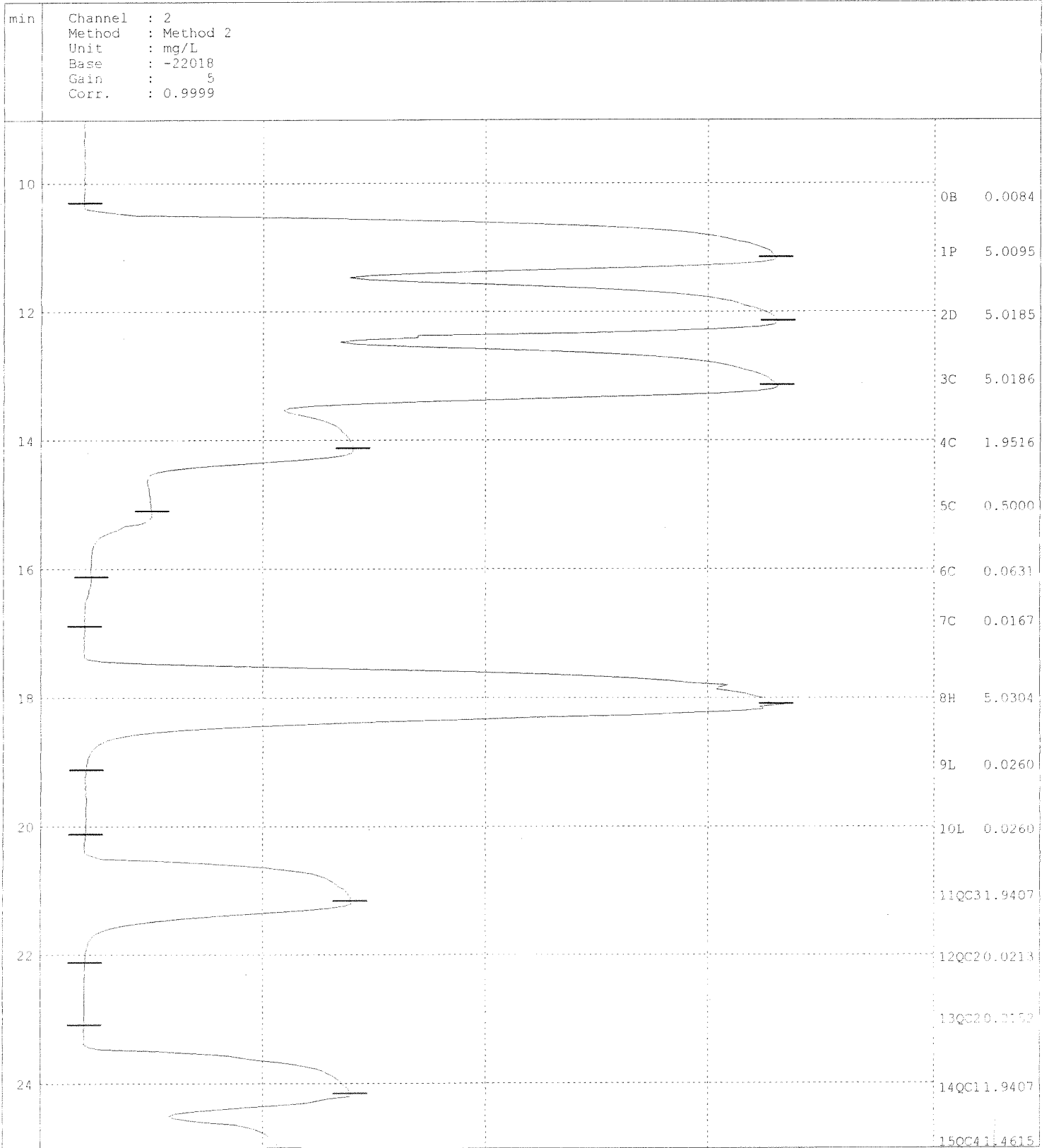
*05/06/10*  
*Haugen*

# BRAN+LUEBBE

Post-run chart

Name of run :100506C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL

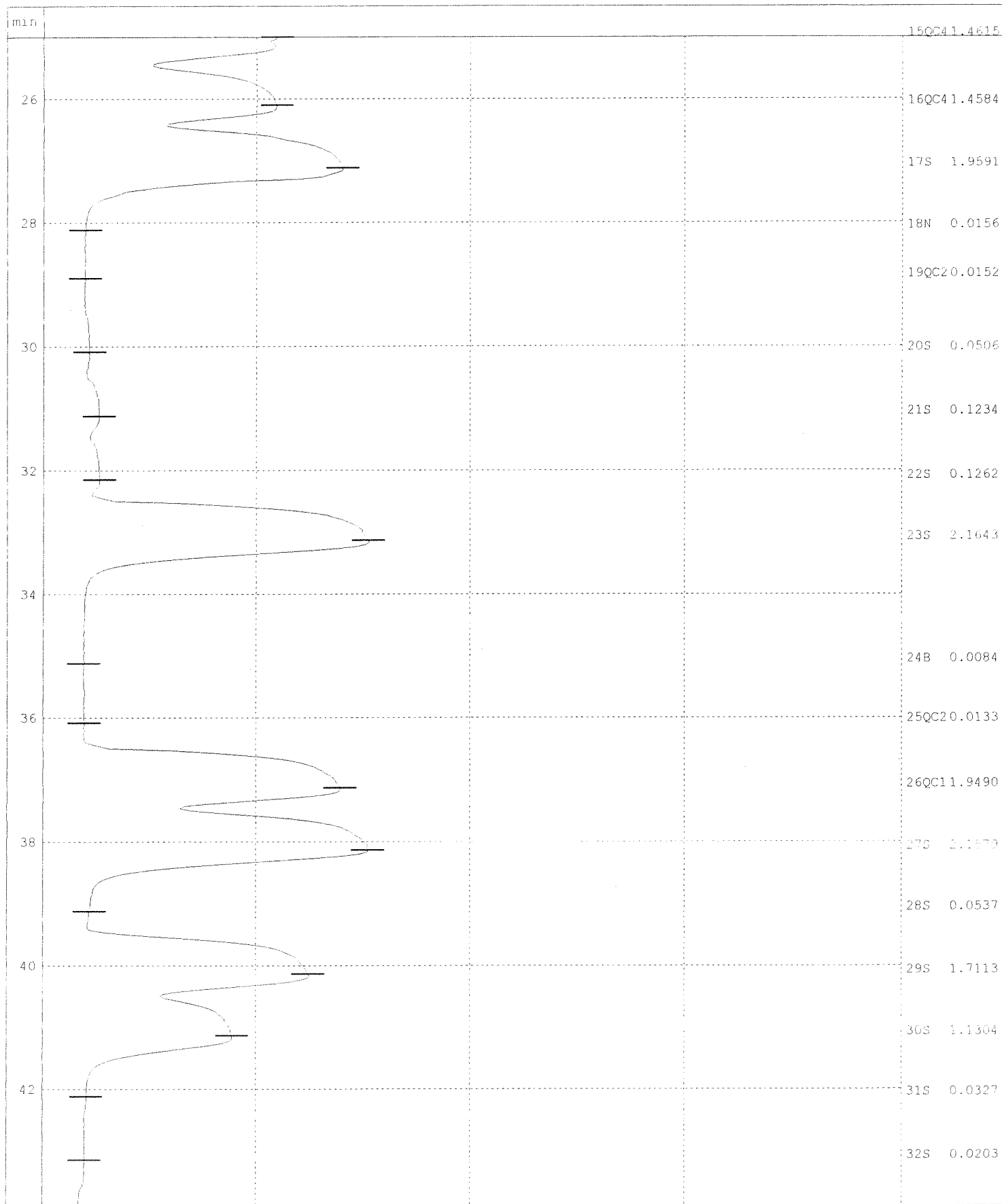


05/06/10  
Heuer

5/21/10

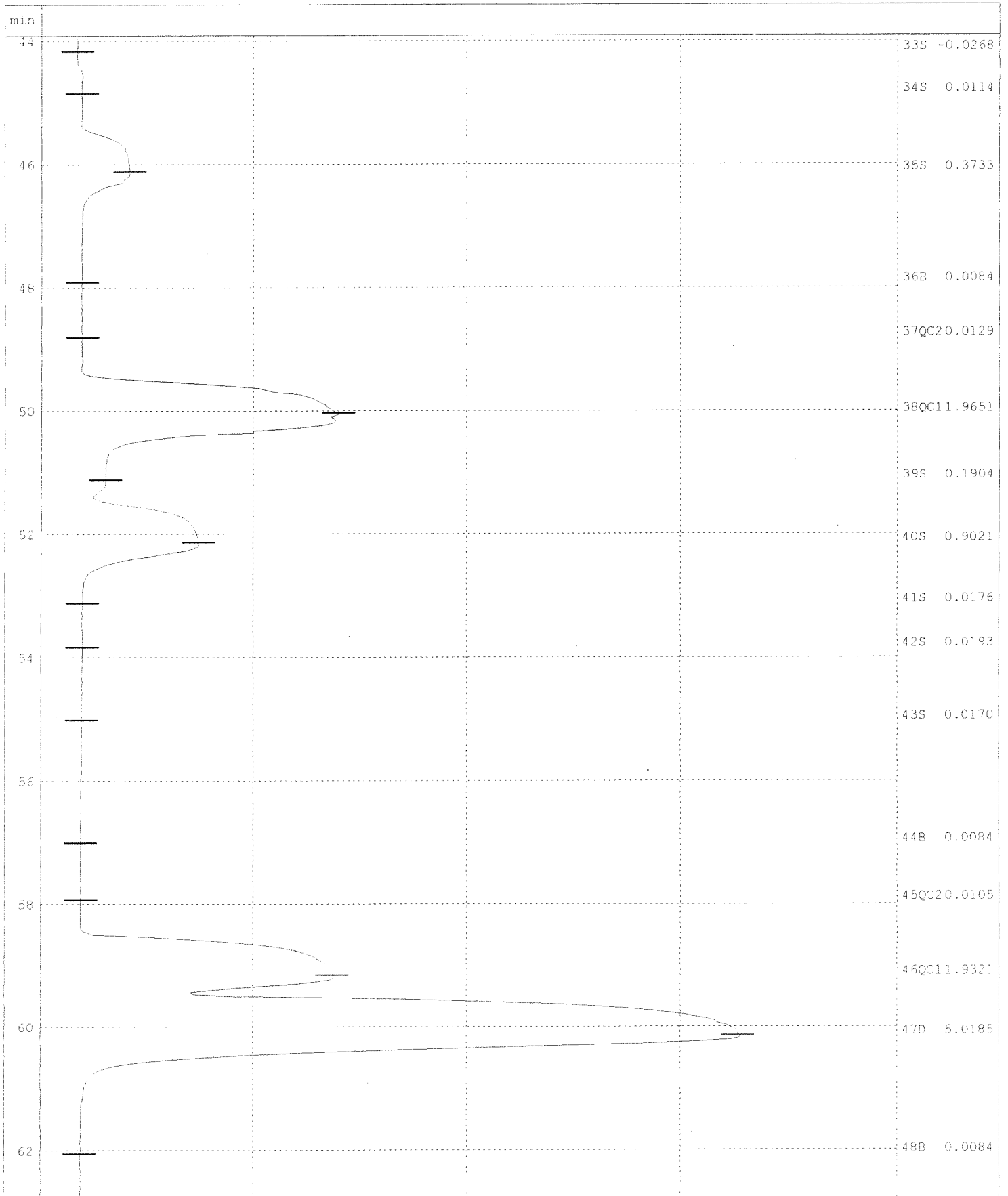
Name of run :100506C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Name of run :100506C.RUN  
Comment :

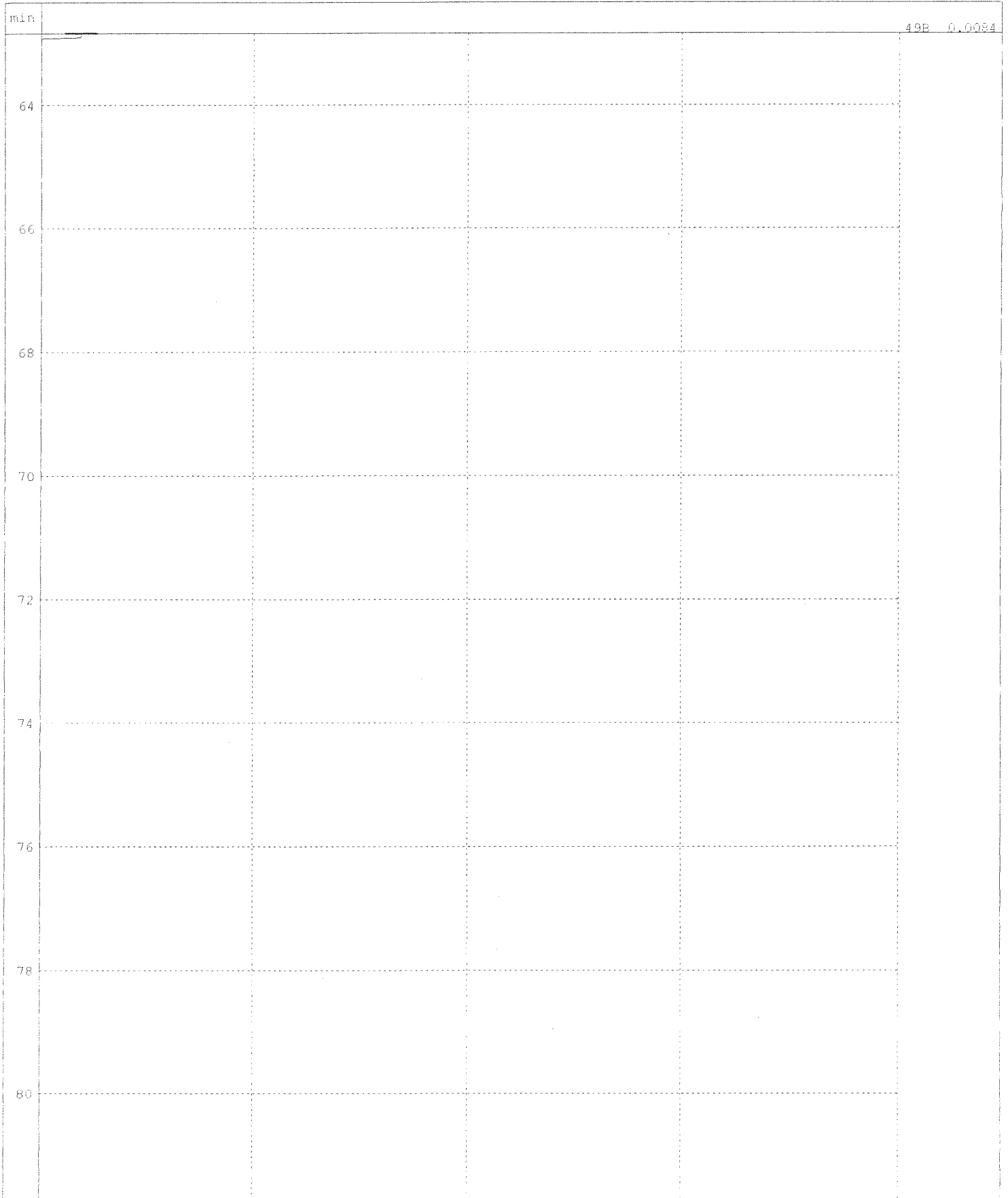
Name of analysis :NO2+NO3.ANL





Name of run :100506C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Original  
 Work Request # (K4467)  
 Tier: V  
 Date Analyzed: 5/5/10  
 Analyst: SS  
 Analysis: ophos (H<sub>2</sub>O)

199329

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 5/5/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-UV-VIS-01

Analyst: SSINHA

Analysis Lot:

199329

Method/Testcode: 365.3/O Phos T

| Lab Code     | Target Analytes              | QC  | Parent Sample | Matrix | Raw Result | Sample Amt | Final Result | Dil | MDL   | POL   | % Rec | % RSD | Date Analyzed   | QC? Tier |
|--------------|------------------------------|-----|---------------|--------|------------|------------|--------------|-----|-------|-------|-------|-------|-----------------|----------|
| K1004467-001 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.03 mg/L  | 50 mL      | 0.029 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-01 | Orthophosphate as Phosphorus | MS  | K1004467-001  | Water  | 0.22 mg/L  | 50 mL      | 0.217 mg/L   | 1   | 0.004 | 0.010 | 94    |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-02 | Orthophosphate as Phosphorus | DMS | K1004467-001  | Water  | 0.41 mg/L  | 50 mL      | 0.410 mg/L   | 1   | 0.004 | 0.010 | 95    | 62*   | 5/5/10 15:00:00 | N V      |
| KQ1003965-03 | Orthophosphate as Phosphorus | DUP | K1004467-001  | Water  | 0.03 mg/L  | 50 mL      | 0.029 mg/L   | 1   | 0.004 | 0.010 | <1    |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-04 | Orthophosphate as Phosphorus | MB  |               | Water  | 0.00 mg/L  | 50 mL      | 0.010 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-05 | Orthophosphate as Phosphorus | LCS |               | Water  | 0.34 mg/L  | 5 mL       | 3.41 mg/L    | 1   | 0.04  | 0.10  | 96    |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-06 | Orthophosphate as Phosphorus | CCB |               | Water  | 0.00 mg/L  | 50 mL      | 0.010 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-07 | Orthophosphate as Phosphorus | CCB |               | Water  | 0.00 mg/L  | 50 mL      | 0.010 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-08 | Orthophosphate as Phosphorus | CCV |               | Water  | 0.48 mg/L  | 50 mL      | 0.480 mg/L   | 1   | 0.004 | 0.010 | 96    |       | 5/5/10 15:00:00 | N V      |
| KQ1003965-09 | Orthophosphate as Phosphorus | CCV |               | Water  | 0.48 mg/L  | 50 mL      | 0.478 mg/L   | 1   | 0.004 | 0.010 | 96    |       | 5/5/10 15:00:00 | N V      |

$KQ1003965-01 = 0.1 \mu\text{M} \times 1000 \text{ppm} / 50 \text{mL} = 0.2 \text{mg/L}$   
 $\downarrow - 1 \mu\text{SD} = 0.2 \mu\text{M} \times 1000 \text{ppm} / 50 \text{mL} = 0.4 \text{mg/L}$

LCS TV = 3.57 ug/L

SSA  
5/5/10

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Ophos (H<sub>2</sub>O)  
 5/4/10 15:00  
 SS

DU520 S/N: 0112U2001732 1.03  
 05-MAY-10 15:47:03 SCA Group 0756  
 Wavelength: 650.0 nm  
 Formula: A=a+bC a: -0.0031 b: 2.0727

| Sample | Net A                     | Dil X             | mg/L                 |
|--------|---------------------------|-------------------|----------------------|
| 0001   | CB-1 -0.000               | 1.0000            | 0.0015               |
| 0002   | CW-1 0.993                | 1.0000            | 0.4803               |
| 0003   | MB -0.001                 | 1.0000            | 0.0013               |
| 0004   | LCB 0.704 <sup>5/50</sup> | 1.0000            | 0.3414               |
| 0005   | K4467-1 0.057             | 1.0000            | 0.0291               |
| 0006   | -id 0.057                 | 1.0000            | 0.0291               |
| 0007   | -ims 0.446                | 1.0000            | 0.2168               |
| 0008   | -ims 0.847                | 1.0000            | 0.4104               |
| 0009   | <del>0.061</del>          | <del>1.0000</del> | <del>0.0308</del> NR |
| 0010   | CB-2 -0.001               | 1.0000            | 0.0008               |
| 0011   | CW-2 0.987                | 1.0000            | 0.4778               |

CCV = POS/3-24-I  
 Curve = POS/3-4-I  
 spike <sup>0</sup> = POS/3-77-A  
 LCB spike <sup>0</sup> = POS/3-79-B  
 @SS 5/5/10

5/5/10



Ophos (H<sub>2</sub>O)  
CS 5/4/10

DU520 S/N: 0112U2001732 1.03  
05-MAY-10 15:46:52 SCA  
Wavelength: 650.0 nm  
Formula: A=a+bC a: -0.0031 b: 2.0727

| mg/L   | Net A  | r <sup>2</sup> =1.000 | Var=0.0001 |
|--------|--------|-----------------------|------------|
| 0.0000 | -0.000 |                       |            |
| 0.0100 | 0.020  |                       |            |
| 0.0500 | 0.102  |                       |            |
| 0.1000 | 0.208  |                       |            |
| 0.2000 | 0.406  |                       |            |
| 0.5000 | 1.013  |                       |            |
| 0.7000 | 1.463  |                       |            |

JAL  
5/5/10

199979

|                |                        |      |      |      |      |      |      |      |   |
|----------------|------------------------|------|------|------|------|------|------|------|---|
| Work Request # | (Original<br>4701)     | 4445 | 4180 | 4215 | 4376 | 4257 | 4338 | 4481 |   |
| Tier:          | V                      | II   | I    | II   | II   | II   | II   | V    |   |
| Date Analyzed: | 5.10.10                |      | 4483 | 4414 | 4455 | 4467 | 4591 | 4575 |   |
| Analyst:       | mb                     |      | V    | II   | V    | V    | V    | V    | V |
| Analysis:      | dtk, bcarb, ccarb, OH- |      |      | 4635 |      |      |      |      |   |
|                |                        |      |      | V    |      |      |      |      |   |

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? yes/no/NA  
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? yes/no/NA  
(e.g. Special MRLs, QC on a specific sample)
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

**COMMENTS:**

Push, 4445 due 5.12

Final Approved by: \_\_\_\_\_ Date: 5/10/10 \_\_\_\_\_

DQREPORT

99979

Request #: \_\_\_\_\_ Method: EPA 310.1 / SM 2320B  
 Analysis For: Alkalinity as CaCO<sub>3</sub>: Total / Bicarbonate / Carbonate / Hydroxide

| pH Meter Calibration | Sample #               | MB   | LCS  | ICSD | 4201-1 | 4201-1d | 4201-2 | 4445-5 |
|----------------------|------------------------|------|------|------|--------|---------|--------|--------|
| pH 12.45             | Initial pH             | 5.37 | 8.95 | 8.93 | 7.44   | 7.37    | 6.02   | 7.39   |
|                      | Titrant used to pH 8.3 |      |      |      |        |         |        |        |
| pH 10.00             | Titrant used to pH 4.5 | 0.11 | 3.27 | 3.39 | 2.96   | 2.99    | 0.33   | 5.08   |
| 0.00                 | Titrant used to pH 4.2 | 0.31 |      |      |        |         | 0.59   |        |
| pH 7.00              | Sample Volume          | 100  | 50   | 50   | 50     | 50      | 100    | 53     |
| 7.00                 | Alkalinity             | <2   | 65.4 | 67.8 | 59.2   | 59.8    | <2.0   | 45.8   |
| pH 4.00              | Bicarbonate            |      |      |      |        |         |        |        |
| 4.00                 | Carbonate              |      |      |      |        |         |        |        |
| pH 4.00 Chk.         | Hydroxide              |      |      |      |        |         |        |        |
| 4.04                 |                        |      |      |      |        |         |        |        |

| Sample #               | 4180-1 | 4216-1 | 4216-2 | BV   | 4216-3 | 4216-4 | 4216-5 | 4216-6 |
|------------------------|--------|--------|--------|------|--------|--------|--------|--------|
| Initial pH             | 7.03   | 6.46   | 7.39   | 4.03 | 6.81   | 7.14   | 6.80   | 6.74   |
| Titrant used to pH 8.3 |        |        |        | 7    |        |        |        |        |
| Titrant used to pH 4.5 | 1.31   | 2.76   | 2.71   |      | 14.88  | 40.66  | 15.78  | 17.89  |
| Titrant used to pH 4.2 |        |        |        |      |        |        |        |        |
| Sample Volume          | 50     | 50     | 50     |      | 50     | 51     | 53     | 50     |
| Alkalinity             | 26.2   | 55.2   | 55.1   |      | 298    | 798    | 298    | 352    |
| Bicarbonate            |        |        |        |      |        |        |        |        |
| Carbonate              |        |        |        |      |        |        |        |        |
| Hydroxide              |        |        |        |      |        |        |        |        |

CS: <sup>EPA</sup> APG = \_\_\_\_\_ Lot # = 5161-678 True Value = 67.9 % Rec. = 96/100, 10-1, 94  
 Probe ID#: NU1 Titrant Manf: RCC 1909615  
 Calculations: Alkalinity =  $\frac{A \times N \times 50,000}{\text{Volume (mls)}}$  A = mls standard titrant used  
 N = Normality of standard acid 0.02 / 0.1 N(HCL)

Comments: 0.16 5.10 4201-1/1d 5 = 59.5 RPD = 1

Analyzed By: *ab* Date: 5.10.10  
 Received By: *[Signature]* Date: 5/11/10

Columbia Analytical Services, Inc.

Service Request #: \_\_\_\_\_ Method: EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO<sub>3</sub>: Total / Bicarbonate / Carbonate / Hydroxide

| Sample #               | 4376-1 | 4376-1d | 4376-8 | 4376-9 | 4252-1*          | 4252-1d* | BC   | 4252-2* |
|------------------------|--------|---------|--------|--------|------------------|----------|------|---------|
| Initial pH             | 6.73   | 6.71    | 7.58   | 6.81   | 6.62             | 6.56     | 4.04 | 6.94    |
| Titrant used to pH 8.3 |        |         |        |        |                  |          | 7    |         |
| Titrant used to pH 4.5 | 10.59  | 9.72    | 10.62  | 10.58  | 8.49             | 8.33     |      | 13.29   |
| Titrant used to pH 4.2 |        |         |        |        |                  |          |      |         |
| Sample Volume          | 54     | 50      | 51     | 50     | <del>55</del> 50 | 50       |      | 52      |
| Alkalinity             | 196    | 194     | 208    | 212    | 819              | 833      |      | 1280    |
| Bicarbonate            |        |         |        |        |                  |          |      |         |
| Carbonate              |        |         |        |        |                  |          |      |         |
| Hydroxide              |        |         |        |        |                  |          |      |         |

| Sample #               | 4252-3* | 4252-4* | 4252-5* | 4252-6* | 4252-7 | 4252-8* | 4338-1 | 4338-2 |
|------------------------|---------|---------|---------|---------|--------|---------|--------|--------|
| Initial pH             | 7.01    | 7.06    | 7.48    | 6.91    | 7.11   | 6.86    | 7.74   | 7.77   |
| Titrant used to pH 8.3 |         |         |         |         |        |         |        |        |
| Titrant used to pH 4.5 | 18.07   | 12.59   | 15.06   | 23.72   | 1.91   | 25.21   | 13.09  | 10.81  |
| Titrant used to pH 4.2 |         |         |         |         |        |         |        |        |
| Sample Volume          | 50      | 52      | 10      | 50      | 50     | 50      | 50     | 50     |
| Alkalinity             | 1500    | 1210    | 7530    | 2370    | 38.2   | 2520    | 262    | 216    |
| Bicarbonate            |         |         |         |         |        |         | 262    | 216    |
| Carbonate              |         |         |         |         |        |         | <2     | <2     |
| Hydroxide              |         |         |         |         |        |         |        |        |

| Sample #               | 4338-2d | BC   | MB <sub>2</sub> | LC5 <sub>2</sub> | 4481-3 | 4481-4 | 4481-5 | 4481-5d |
|------------------------|---------|------|-----------------|------------------|--------|--------|--------|---------|
| Initial pH             | 7.79    | 4.03 | 5.66            | 8.98             | 6.62   | 6.69   | 7.22   | 7.75    |
| Titrant used to pH 8.3 |         | 7    |                 |                  |        |        |        |         |
| Titrant used to pH 4.5 | 10.89   |      | 0.19            | 2.52             | 20.41  | 25.88  | 9.21   | 9.08    |
| Titrant used to pH 4.2 |         |      | 0.38            |                  |        |        |        |         |
| Sample Volume          | 50      |      | 100             | 50               | 50     | 50     | 50     | 50      |
| Alkalinity             | 218     | <2   | 70.4            | 408              | 518    | 184    | 182    |         |
| Bicarbonate            | 218     |      |                 |                  |        |        |        |         |
| Carbonate              | <2      |      |                 |                  |        |        |        |         |
| Hydroxide              |         |      |                 |                  |        |        |        |         |

Comments: Tab 5.10

|            |                 |         |
|------------|-----------------|---------|
| 4376-1/11d | $\bar{x} = 195$ | RPD = 1 |
| 4252-1/11d | $\bar{x} = 841$ | RPD = 2 |
| 4338-2/12d | $\bar{x} = 217$ | RPD < 1 |
| 4481-5/15d | $\bar{x} = 183$ | RPD = 1 |

|                 |               |
|-----------------|---------------|
| Analyzed By: mb | Date: 5.10.10 |
| Received By:    | Date: 5/11/10 |



Columbia Analytical Services, Inc.

Service Request #: \_\_\_\_\_ Method: EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO<sub>3</sub>: Total / Bicarbonate / Carbonate / Hydroxide

|                        |        |        |        |        |      |        |        |        |
|------------------------|--------|--------|--------|--------|------|--------|--------|--------|
| Sample #               | 4483-2 | 4414-1 | 4455-1 | 4455-2 | BV   | 4467-1 | 4591-1 | 4575-1 |
| Initial pH             | 6.85   | 6.62   | 7.71   | 6.26   | 4.04 | 7.27   | 7.17   | 6.81   |
| Titrant used to pH 8.3 |        |        |        |        |      |        |        |        |
| Titrant used to pH 4.5 | 3.71   | 1.06   | 2.98   | 0.35   |      | 8.98   | 7.58   | 13.13  |
| Titrant used to pH 4.2 |        |        |        | 0.38   |      |        |        |        |
| Sample Volume          | 50     | 100    | 50     | 100    |      | 52     | 50     | 50     |
| Alkalinity             | 74.2   | 10.6   | 59.6   | <2     |      | 173    | 71.6   | 263    |
| Bicarbonate            |        |        |        |        |      | 173    |        | 263    |
| Carbonate              |        |        |        |        |      | <2     |        | <2     |
| Hydroxide              |        |        |        |        |      | <2     |        | <2     |

|                        |        |        |                     |        |        |        |                 |      |
|------------------------|--------|--------|---------------------|--------|--------|--------|-----------------|------|
| Sample #               | 4575-2 | 4575-3 | 4575-4              | 4635-1 | 4635-2 | 4635-3 | MB <sup>2</sup> | BV   |
| Initial pH             | 7.11   | 7.07   | 8.58                | 7.57   | 6.83   | 7.11   | 5.39            | 4.03 |
| Titrant used to pH 8.3 |        |        | 0.04                |        |        |        |                 |      |
| Titrant used to pH 4.5 | 10.98  | 10.72  | 7.71                | 13.81  | 0.16   | 16.12  | 0.01            |      |
| Titrant used to pH 4.2 |        |        | 0.91                |        | 0.37   |        | 9.02            |      |
| Sample Volume          | 50     | 50     | 100                 | 50     | 100    | 52     | 100             |      |
| Alkalinity             | 220    | 214    | 5.1                 | 276    | <2     | 310    | <2              |      |
| Bicarbonate            | 220    | 214    | <del>276</del> 30   | 276    | <2     | 310    |                 |      |
| Carbonate              | <2     | <2     | <del>&lt;2</del> <2 | <2     | <2     | <2     |                 |      |
| Hydroxide              | <2     | <2     | <del>&lt;2</del> <2 | <2     | <2     | <2     |                 |      |

|                        |                  |      |  |  |  |  |  |  |
|------------------------|------------------|------|--|--|--|--|--|--|
| Sample #               | LC5 <sup>2</sup> | BV   |  |  |  |  |  |  |
| Initial pH             | 8.88             | 4.04 |  |  |  |  |  |  |
| Titrant used to pH 8.3 |                  |      |  |  |  |  |  |  |
| Titrant used to pH 4.5 | 0.64             |      |  |  |  |  |  |  |
| Titrant used to pH 4.2 |                  |      |  |  |  |  |  |  |
| Sample Volume          | 50               |      |  |  |  |  |  |  |
| Alkalinity             | 64.0             |      |  |  |  |  |  |  |
| Bicarbonate            |                  |      |  |  |  |  |  |  |
| Carbonate              |                  |      |  |  |  |  |  |  |
| Hydroxide              |                  |      |  |  |  |  |  |  |

Comments: apb 5.10

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|                                 |                      |
|---------------------------------|----------------------|
| Analyzed By: <u>nb</u>          | Date: <u>5.10.10</u> |
| Reviewed By: <u>[Signature]</u> | Date: <u>5/11/10</u> |

Work Request # ( <sup>Original</sup> ) 4455, 4467, 4483, 4593, 4788, 4587, 4590, 4591  
 Tier: III III II I I I I II  
 Date Analyzed: 5/11/10  
 Analyst: CEJ  
 Analysis: TDS


200127

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? (yes/no/NA)
2. Holding times met for all analyses and for all samples? (yes/no/NA)
3. Are calculations correct? (yes/no/NA)
4. Is the reporting basis correct? (Dry Weight) (yes/no/NA)
5. All quality control criteria met? (yes/no/NA)
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? (yes/no/NA)
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? (yes/no/NA)
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? (yes/no/NA)
  - d. Are results for methods blanks all ND? (yes/no/NA)
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) (yes/no/NA)
  - f. Are all exceptions explained? (yes/no/NA)
6. Are all service requests that apply attached? (yes/no/NA)
7. Are all samples labelled correctly? (yes/no/NA)
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) (yes/no/NA)
9. Are detection limits and units reported correctly? (yes/no/NA)
10. Are proper Analysis/Extraction stickers included on report? (yes/no/NA)
11. Is the unused space on the benchsheet crossed out? (yes/no/NA)
12. Was analysis turned in by the due date? (n-2) (If not record SR#) (yes/no/NA)

**COMMENTS:**

Final Approved by:  Date: 5/17/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-Balance-31      Analyst: CSETHE      Analysis Lot: 200127      Method/Testcode: SM 2540 C/TDS

| Lab Code    | Target Analytes         | QC   | Parent Sample | Matrix | Raw Result  | Sample Amt. | Final Result | Dil | MDL | PQL | % Rec | % RSD | Date Analyzed | QC? Tier |
|-------------|-------------------------|------|---------------|--------|-------------|-------------|--------------|-----|-----|-----|-------|-------|---------------|----------|
| 1004455-001 | Solids, Total Dissolved | N/A  |               | Water  | 87.00 mg/L  | 100 ml      | 87.0 mg/L    | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004455-002 | Solids, Total Dissolved | N/A  |               | Water  | 0.00 mg/L   | 200 ml      | 5.0 mg/L U   | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004467-001 | Solids, Total Dissolved | N/A  |               | Water  | 327.00 mg/L | 100 ml      | 327 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004483-001 | Solids, Total Dissolved | N/A  |               | Water  | 193.00 mg/L | 100 ml      | 193 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004483-002 | Solids, Total Dissolved | N/A  |               | Water  | 222.00 mg/L | 100 ml      | 222 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004488-002 | Solids, Total Dissolved | N/A  |               | Water  | 224.00 mg/L | 100 ml      | 224 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N 1      |
| 1004587-001 | Solids, Total Dissolved | N/A  |               | Water  | 137.00 mg/L | 100 ml      | 137 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004587-002 | Solids, Total Dissolved | N/A  |               | Water  | 136.00 mg/L | 100 ml      | 136 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004590-001 | Solids, Total Dissolved | N/A  |               | Water  | 237.00 mg/L | 100 ml      | 237 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N 1      |
| 1004591-001 | Solids, Total Dissolved | N/A  |               | Water  | 202.00 mg/L | 100 ml      | 202 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-001 | Solids, Total Dissolved | N/A  |               | Water  | 71.00 mg/L  | 100 ml      | 71.0 mg/L    | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-002 | Solids, Total Dissolved | N/A  |               | Water  | 172.00 mg/L | 100 ml      | 172 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-003 | Solids, Total Dissolved | N/A  |               | Water  | 239.00 mg/L | 100 ml      | 239 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-004 | Solids, Total Dissolved | N/A  |               | Water  | 119.00 mg/L | 100 ml      | 119 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-005 | Solids, Total Dissolved | N/A  |               | Water  | 199.00 mg/L | 100 ml      | 199 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-006 | Solids, Total Dissolved | N/A  |               | Water  | 198.00 mg/L | 100 ml      | 198 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-007 | Solids, Total Dissolved | N/A  |               | Water  | 197.00 mg/L | 100 ml      | 197 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-008 | Solids, Total Dissolved | N/A  |               | Water  | 98.00 mg/L  | 100 ml      | 98.0 mg/L    | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-009 | Solids, Total Dissolved | N/A  |               | Water  | 81.00 mg/L  | 100 ml      | 81.0 mg/L    | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| 1004593-010 | Solids, Total Dissolved | N/A  |               | Water  | 123.00 mg/L | 100 ml      | 123 mg/L     | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| Q1004214-01 | Solids, Total Dissolved | MB   |               | Water  | -1.00 mg/L  | 200 ml      | 5.0 mg/L U   | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| Q1004214-02 | Solids, Total Dissolved | MB   |               | Water  | 2.50 mg/L   | 200 ml      | 5.0 mg/L U   | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| Q1004214-03 | Solids, Total Dissolved | LCS  |               | Water  | 742.00 mg/L | 50 ml       | 742 mg/L     | 1   | 5.0 | 5.0 | 99    |       | 5/11/10 14:00 | N V      |
| Q1004214-04 | Solids, Total Dissolved | DLCS |               | Water  | 726.00 mg/L | 50 ml       | 726 mg/L     | 1   | 5.0 | 5.0 | 97    |       | 5/11/10 14:00 | N V      |
| Q1004214-05 | Solids, Total Dissolved | DUP  | K1004455-001  | Water  | 80.00 mg/L  | 100 ml      | 80.0 mg/L    | 1   | 5.0 | 5.0 |       |       | 5/11/10 14:00 | N V      |
| Q1004214-06 | Solids, Total Dissolved | DUP  | K1004467-001  | Water  | 326.00 mg/L | 100 ml      | 326 mg/L     | 1   | 5.0 | 5.0 |       | <1    | 5/11/10 14:00 | N V      |

CS  
5/15/10

5/17/10

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indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.:

Method: EPA SM 2540 C

Analysis: Total Dissolved Solids

200127

| Sample #      | Crucible # | Conductivity | Sample Volume (ml) | Wt, Cru. + Dry sample (1) (g) | Wt, Cru. + Dry sample (2) (g) | Wt, Cru. + Dry sample (3) (g) | Wt. Crucible (g) | Wt. Dry Sample (g) | TDS (mg/L) | TDS (mg/L) reported |
|---------------|------------|--------------|--------------------|-------------------------------|-------------------------------|-------------------------------|------------------|--------------------|------------|---------------------|
| MB            | X10        |              | 200                | 121.0098                      | 121.0103                      |                               | 121.0100         | -0.0002            | -1         | <5.0                |
| MB            | Sarah P    |              | 200                | 96.8631                       | 96.8635                       |                               | 96.8626          | 0.0005             | 3          | <5.0                |
| LCS           | Cooter     |              | 50                 | 69.5135                       | 69.5132                       |                               | 69.4764          | 0.0371             | 742        | 742                 |
| DLCS          | 21 S       |              | 50                 | 75.4957                       | 75.4957                       |                               | 75.4594          | 0.0363             | 726        | 726                 |
| K1004455-001  | Onyx       | 136          | 100                | 70.6467                       | 70.6470                       |                               | 70.6380          | 0.0087             | 87         | 87.0                |
| K1004455-002  | C5         | 2            | 200                | 75.4064                       | 75.4067                       |                               | 75.4064          | 0.0000             | 0          | <5.0                |
| K1004467-001  | 16 S       | 488          | 100                | 84.8401                       | 84.8399                       |                               | 84.8074          | 0.0327             | 327        | 327                 |
| K1004483-001  | 28 C       | 326          | 100                | 75.9014                       | 75.9010                       |                               | 75.8821          | 0.0193             | 193        | 193                 |
| K1004483-002  | 4 S        | 353          | 100                | 80.2548                       | 80.2543                       |                               | 80.2326          | 0.0222             | 222        | 222                 |
| K1004593-001  | DE         | 72           | 100                | 67.9878                       | 67.9876                       |                               | 67.9807          | 0.0071             | 71         | 71.0                |
| K1004593-002  | III        | 273          | 100                | 73.7428                       | 73.7430                       |                               | 73.7256          | 0.0172             | 172        | 172                 |
| K1004593-003  | 1 S        | 494          | 100                | 75.7927                       | 75.7925                       |                               | 75.7688          | 0.0239             | 239        | 239                 |
| K1004593-004  | Mona       | 180          | 100                | 71.8558                       | 71.8560                       |                               | 71.8439          | 0.0119             | 119        | 119                 |
| K1004593-005  | 18 S       | 359          | 100                | 84.1876                       | 84.1874                       |                               | 84.1677          | 0.0199             | 199        | 199                 |
| K1004593-006  | 1/9/2008   | 303          | 100                | 82.6702                       | 82.6699                       |                               | 82.6504          | 0.0198             | 198        | 198                 |
| K1004593-007  | 44 S       | 337          | 100                | 81.7349                       | 81.7347                       |                               | 81.7152          | 0.0197             | 197        | 197                 |
| K1004593-008  | NC2        | 135          | 100                | 86.0087                       | 86.0092                       |                               | 85.9989          | 0.0098             | 98         | 98.0                |
| K1004593-009  | K1         | 89           | 100                | 76.3256                       | 76.3257                       |                               | 76.3175          | 0.0081             | 81         | 81.0                |
| K1004593-010  | G16        | 155          | 100                | 78.0708                       | 78.0712                       |                               | 78.0585          | 0.0123             | 123        | 123                 |
| K1004488-002  | XIV        | 270          | 100                | 74.8887                       | 74.8888                       |                               | 74.8663          | 0.0224             | 224        | 224                 |
| K1004587-001  | 31 C       | 201          | 100                | 78.7742                       | 78.7743                       |                               | 78.7605          | 0.0137             | 137        | 137                 |
| K1004587-002  | 23 C       | 180          | 100                | 75.0051                       | 75.0047                       |                               | 74.9915          | 0.0136             | 136        | 136                 |
| K1004590-001  | 3 C        | 322          | 100                | 71.2018                       | 71.2022                       |                               | 71.1781          | 0.0237             | 237        | 237                 |
| K1004591-001  | pig        | 361          | 100                | 77.2845                       | 77.2840                       |                               | 77.2643          | 0.0202             | 202        | 202                 |
| K1004455-001d | Maxwell    | 136          | 100                | 67.2697                       | 67.2692                       |                               | 67.2617          | 0.0080             | 80         | 80.0                |

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

Balance#31

APG #:4033

Lot# 041109

ID# TDS/1-25-A

T.V. = 750

% Rec =

|              |      |              |      |              |      |
|--------------|------|--------------|------|--------------|------|
| Wt (1) Start | 1630 | Wt (2) Start | 1030 | Wt (3) Start | 1330 |
| 5/13/10 Stop | 1030 | 5/14/10 Stop | 1055 | 5/15/10 Stop | 1030 |
| Wt (1) Start | 105  | Wt (2) Start | 180  | Wt (3) Start | 180  |
| Temp Stop    | 105  | Temp Stop    | 180  | Temp Stop    | 180  |

Analyzed By: CES

Date Analyzed: 5/11/2010 14:00

Reviewed By: [Signature]

Date Reviewed: 5/17/10



COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: \_\_\_\_\_  
 Analysis: Total Dissolved Solids

Method: EPA SM 2540 C

200127

| Sample #      | Crucible # | Conductivity | Sample Volume (ml) | Wt, Cru. + Dry sample (1) (g) | Wt, Cru. + Dry sample (2) (g) | Wt, Cru. + Dry sample (3) (g) | Wt. Crucible (g) | Wt. Dry Sample (g) | TDS (mg/L) | TDS (mg/L) reported |
|---------------|------------|--------------|--------------------|-------------------------------|-------------------------------|-------------------------------|------------------|--------------------|------------|---------------------|
| K1004467-001d | duck       | 488          | 100                | 68.6113                       | 68.6110                       |                               | 68.5787          | 0.0326             | 326        | 326                 |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |
|               |            |              |                    |                               |                               |                               |                  | 0.0000             | #DIV/0!    | #DIV/0!             |

*CES 5/15/10*

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Analyzed By: <i>CES</i>         | Date Analyzed: <i>5/11/2010</i> 14:00 |
| Reviewed By: <i>[Signature]</i> | Date Reviewed: <i>5/17/10</i>         |

Work Request # <sup>Original</sup> (K4467) 4150, 4548

Tier: I II IV

Date Analyzed: 5/6/10

Analyst: K Cuevas

Analysis: pH 4500

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct (Dry Weight)? yes/no/NA
- 5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs, all within acceptance limits? yes/no/NA
  - d. Are results for method blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? yes/no/NA  
(LCS %Rec, MS/DMS %Rec, DUP or MS/DMS RPDs, etc.)
  - f. Are all exceptions explained? yes/no/NA
- 6. Are all service requests that apply attached? yes/no/NA
- 7. Are all samples labeled correctly? yes/no/NA
- 8. Have all instructions on the service request been followed? yes/no/NA  
(e.g. Special MRLs, QC on a specific sample)
- 9. Are detection limits and units reported correctly? yes/no/NA
- 10. Are proper Analytical Batch stickers included on report? yes/no/NA
- 11. Is the unused space on the benchsheet crossed out? yes/no/NA
- 12. Was analysis turned in by the due date (n-2)? If not, record SR#. yes/no/NA

**COMMENTS:**  
RPH  
4467  
4510

Final Approval By: [Signature] Date: 5/7/10

K4467, 4150, 4548

199573

Method: SM 4500 H+B

| Sample #          | pH              | Time Analyzed | Temp. C |
|-------------------|-----------------|---------------|---------|
| pH 12.45 Buffer   |                 |               |         |
| pH 10.00 Buffer   | 10.00           | 1428          | 25.2    |
| pH 7.00 Buffer    | 7.00            | 1427          | 25.4    |
| pH 4.00 Buffer    | 4.00            | 1426          | 24.7    |
| pH 1.00 Buffer    |                 |               |         |
| Buffer Check      | 6.42            | 1503          | 24.1    |
| LCS               | 4.93            | 1502          | 24.1    |
| <del>4467-1</del> | <del>7.46</del> | 1504          | 25.6    |
| 4150-4            | 6.24            | 1505          | 25.5    |
| <del>DV 4J</del>  |                 |               |         |
| 4548-3            | 7.88            | 1512          | 25.3    |
| <del>3d</del>     | 7.84            | 1513          | 26.1    |
| BC                | 4.01            | 1514          | 24.4    |
|                   |                 |               |         |
|                   |                 |               |         |
| Buffer Check      |                 |               |         |
|                   |                 |               |         |
|                   |                 |               |         |

| Sample #     | pH | Time Analyzed | Temp. C |
|--------------|----|---------------|---------|
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
| Buffer Check |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |
| Buffer Check |    |               |         |
|              |    |               |         |
|              |    |               |         |
|              |    |               |         |

ERA  
 LCS = APG 4063 Lot# 129934 ID# = Cond-1-54-~~R~~<sup>D</sup> T.V. = 6.46 % REC = 99-  
 pH 4.00 buffer Cond/1-75-K pH 7.00 buffer Cond/1-77-N pH 10.00 buffer Cond/1-79-K  
 pH 1.00 buffer Cond/1-73- pH 12.45 buffer Cond/1-81-

~~4150-4 | 4d~~  $\bar{x} =$  ~~RPD =~~ ~~1~~  
 4548-3 | 3d  $\bar{x} = 7.86$  RPD = 1%

|                                 |                     |
|---------------------------------|---------------------|
| Analyzed by: <u>XC</u>          | Date: <u>5/6/10</u> |
| Reviewed by: <u>[Signature]</u> | Date: <u>5/7/10</u> |

## **Metals**



Columbia Analytical Services

- Cover Page -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent  
Project Name: Heglar Kronquist  
Project No.: 0907194.000.0601

Service Request: K1004467

---

| <u>Sample Name:</u> | <u>Lab Code:</u>          |
|---------------------|---------------------------|
| <u>Batch QCD</u>    | <u>K1004452-001D</u>      |
| <u>Batch QCS</u>    | <u>K1004452-001S</u>      |
| <u>BH-13</u>        | <u>K1004467-001 DISS</u>  |
| <u>BH-13D</u>       | <u>K1004467-001D DISS</u> |
| <u>BH-13S</u>       | <u>K1004467-001S DISS</u> |
| <u>Method Blank</u> | <u>K1004467-MB</u>        |

Comments:

Approved By: 3L

Date: 5/28/10

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004467  
 Project No.: 0907194.000.0601 Date Collected: 5/4/2010  
 Project Name: Heglar Kronquist Date Received: 5/5/2010  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: BH-13 Lab Code: K1004467-001 DISS

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50.0  | 2.0   | 1.0         | 05/08/10       | 05/11/10      | 1350   |   |   |
| Antimony  | 200.8           | 0.05  | 0.02  | 1.0         | 05/08/10       | 05/12/10      | 0.39   |   |   |
| Arsenic   | 200.8           | 0.50  | 0.07  | 1.0         | 05/08/10       | 05/12/10      | 1.98   |   |   |
| Barium    | 200.7           | 5.0   | 0.4   | 1.0         | 05/08/10       | 05/11/10      | 47.3   |   |   |
| Beryllium | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 0.074  |   |   |
| Cadmium   | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 0.070  |   |   |
| Calcium   | 200.7           | 50    | 6.0   | 1.0         | 05/08/10       | 05/11/10      | 54600  |   |   |
| Chromium  | 200.8           | 0.20  | 0.04  | 1.0         | 05/08/10       | 05/12/10      | 2.02   |   |   |
| Cobalt    | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 2.470  |   |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/08/10       | 05/12/10      | 4.24   |   |   |
| Iron      | 200.7           | 20.0  | 3.0   | 1.0         | 05/08/10       | 05/11/10      | 2570   |   |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/08/10       | 05/12/10      | 2.300  |   |   |
| Magnesium | 200.7           | 20.0  | 2.0   | 1.0         | 05/08/10       | 05/11/10      | 17900  |   |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/08/10       | 05/11/10      | 218    |   |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.03  | 1.0         | 05/08/10       | 05/12/10      | 5.22   |   |   |
| Potassium | 200.7           | 400   | 50    | 1.0         | 05/08/10       | 05/11/10      | 5170   |   |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/08/10       | 05/12/10      | 0.3    | J |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/08/10       | 05/12/10      | 0.010  | J |   |
| Sodium    | 200.7           | 200   | 20    | 1.0         | 05/08/10       | 05/11/10      | 17800  |   |   |
| Thallium  | 200.8           | 0.020 | 0.002 | 1.0         | 05/08/10       | 05/12/10      | 0.015  | J |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/08/10       | 05/12/10      | 4.00   |   |   |
| Zinc      | 200.8           | 0.50  | 0.20  | 1.0         | 05/08/10       | 05/12/10      | 7.73   |   |   |

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004467  
 Project No.: 0907194.000.0601 Date Collected:  
 Project Name: Heglar Kronquist Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: Method Blank Lab Code: K1004467-MB

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50.0  | 2.0   | 1.0         | 05/08/10       | 05/11/10      | 2.0    | U |   |
| Antimony  | 200.8           | 0.05  | 0.02  | 1.0         | 05/08/10       | 05/12/10      | 0.02   | U |   |
| Arsenic   | 200.8           | 0.50  | 0.07  | 1.0         | 05/08/10       | 05/12/10      | 0.08   | J |   |
| Barium    | 200.7           | 5.0   | 0.4   | 1.0         | 05/08/10       | 05/11/10      | 0.4    | U |   |
| Beryllium | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 0.003  | U |   |
| Cadmium   | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 0.003  | U |   |
| Calcium   | 200.7           | 50    | 6.0   | 1.0         | 05/08/10       | 05/11/10      | 7.2    | J |   |
| Chromium  | 200.8           | 0.20  | 0.04  | 1.0         | 05/08/10       | 05/12/10      | 0.10   | J |   |
| Cobalt    | 200.8           | 0.020 | 0.003 | 1.0         | 05/08/10       | 05/12/10      | 0.003  | U |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/08/10       | 05/12/10      | 0.02   | U |   |
| Iron      | 200.7           | 20.0  | 3.0   | 1.0         | 05/08/10       | 05/11/10      | 3.0    | J |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/08/10       | 05/12/10      | 0.005  | U |   |
| Magnesium | 200.7           | 20.0  | 2.0   | 1.0         | 05/08/10       | 05/11/10      | 2.0    | U |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/08/10       | 05/11/10      | 0.2    | U |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.03  | 1.0         | 05/08/10       | 05/12/10      | 0.03   | U |   |
| Potassium | 200.7           | 400   | 50    | 1.0         | 05/08/10       | 05/11/10      | 50     | U |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/08/10       | 05/12/10      | 0.3    | U |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/08/10       | 05/12/10      | 0.004  | U |   |
| Sodium    | 200.7           | 200   | 20    | 1.0         | 05/08/10       | 05/11/10      | 20     | U |   |
| Thallium  | 200.8           | 0.020 | 0.002 | 1.0         | 05/08/10       | 05/12/10      | 0.002  | U |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/08/10       | 05/12/10      | 0.03   | U |   |
| Zinc      | 200.8           | 0.50  | 0.20  | 1.0         | 05/08/10       | 05/12/10      | 0.20   | U |   |

% Solids: 0.0

Comments:

## METALS

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS Mixed

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Aluminum  | 5000                | 4957  | 99    | 10000                  | 9692  | 97    | 9778  | 98    | 200.7  |
| Antimony  | 25.0                | 23.7  | 95    | 25.0                   | 25.5  | 102   | 25.3  | 101   | 200.8  |
| Arsenic   | 25.0                | 25.5  | 102   | 25.0                   | 25.0  | 100   | 25.6  | 102   | 200.8  |
| Barium    | 5000                | 5151  | 103   | 10000                  | 9939  | 99    | 9852  | 99    | 200.7  |
| Beryllium | 2.5                 | 2.6   | 104   | 25.0                   | 24.8  | 99    | 26.6  | 106   | 200.8  |
| Cadmium   | 12.5                | 12.7  | 102   | 25.0                   | 25.4  | 102   | 25.4  | 102   | 200.8  |
| Calcium   | 12500               | 12900 | 103   | 10000                  | 10140 | 101   | 9969  | 100   | 200.7  |
| Chromium  | 10.0                | 10.1  | 101   | 25.0                   | 24.8  | 99    | 23.7  | 95    | 200.8  |
| Cobalt    | 25.0                | 25.1  | 100   | 25.0                   | 24.9  | 100   | 24.4  | 98    | 200.8  |
| Copper    | 12.5                | 12.9  | 103   | 25.0                   | 25.2  | 101   | 25.3  | 101   | 200.8  |
| Iron      | 2500                | 2615  | 105   | 10000                  | 10190 | 102   | 10010 | 100   | 200.7  |
| Lead      | 25.0                | 24.5  | 98    | 25.0                   | 24.4  | 98    | 25.1  | 100   | 200.8  |
| Magnesium | 12500               | 12650 | 101   | 10000                  | 10050 | 100   | 9773  | 98    | 200.7  |
| Magnesium | 12500               | 12770 | 102   | 10000                  | 10060 | 101   | 10010 | 100   | 200.7  |
| Manganese | 1250                | 1272  | 102   | 250                    | 247   | 99    | 249   | 100   | 200.7  |
| Manganese | 1250                | 1269  | 102   | 250                    | 246   | 98    | 243   | 97    | 200.7  |
| Mercury   | 5.00                | 5.03  | 101   | 5.00                   | 5.29  | 106   | 5.23  | 105   | 245.1  |
| Nickel    | 25.0                | 25.2  | 101   | 25.0                   | 24.6  | 98    | 24.6  | 98    | 200.8  |
| Potassium | 12500               | 12830 | 103   | 10000                  | 10040 | 100   | 10060 | 101   | 200.7  |
| Selenium  | 25.0                | 25.5  | 102   | 25.0                   | 24.6  | 98    | 25.8  | 103   | 200.8  |
| Silver    | 12.5                | 12.6  | 101   | 25.0                   | 25.5  | 102   | 25.9  | 104   | 200.8  |
| Sodium    | 12500               | 12670 | 101   | 10000                  | 10060 | 101   | 10060 | 101   | 200.7  |
| Thallium  | 25.0                | 24.4  | 98    | 25.0                   | 24.1  | 96    | 25.0  | 100   | 200.8  |
| Vanadium  | 25.0                | 25.9  | 104   | 25.0                   | 25.2  | 101   | 24.2  | 97    | 200.8  |
| Zinc      | 25.0                | 25.5  | 102   | 25.0                   | 25.0  | 100   | 25.1  | 100   | 200.8  |



## METALS

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS Mixed

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Aluminum  |                     |       |       | 10000                  | 9738  | 97    | 9772  | 98    | 200.7  |
| Antimony  |                     |       |       | 25.0                   | 25.0  | 100   |       |       | 200.8  |
| Arsenic   |                     |       |       | 25.0                   | 25.8  | 103   |       |       | 200.8  |
| Barium    |                     |       |       | 10000                  | 10000 | 100   | 10080 | 101   | 200.7  |
| Beryllium |                     |       |       | 25.0                   | 25.6  | 102   |       |       | 200.8  |
| Cadmium   |                     |       |       | 25.0                   | 26.2  | 105   |       |       | 200.8  |
| Calcium   |                     |       |       | 10000                  | 10030 | 100   | 10030 | 100   | 200.7  |
| Chromium  |                     |       |       | 25.0                   | 25.7  | 103   |       |       | 200.8  |
| Cobalt    |                     |       |       | 25.0                   | 25.4  | 102   |       |       | 200.8  |
| Copper    |                     |       |       | 25.0                   | 26.2  | 105   |       |       | 200.8  |
| Iron      |                     |       |       | 10000                  | 10020 | 100   | 10090 | 101   | 200.7  |
| Lead      |                     |       |       | 25.0                   | 24.4  | 98    |       |       | 200.8  |
| Magnesium |                     |       |       | 10000                  | 9795  | 98    | 9953  | 100   | 200.7  |
| Magnesium |                     |       |       | 10000                  | 9978  | 100   | 10020 | 100   | 200.7  |
| Manganese |                     |       |       | 250                    | 251   | 100   | 252   | 101   | 200.7  |
| Manganese |                     |       |       | 250                    | 244   | 98    | 236   | 94    | 200.7  |
| Nickel    |                     |       |       | 25.0                   | 25.6  | 102   |       |       | 200.8  |
| Potassium |                     |       |       | 10000                  | 10060 | 101   | 10160 | 102   | 200.7  |
| Selenium  |                     |       |       | 25.0                   | 25.9  | 104   |       |       | 200.8  |
| Silver    |                     |       |       | 25.0                   | 25.8  | 103   |       |       | 200.8  |
| Sodium    |                     |       |       | 10000                  | 9968  | 100   | 10050 | 100   | 200.7  |
| Thallium  |                     |       |       | 25.0                   | 24.7  | 99    |       |       | 200.8  |
| Vanadium  |                     |       |       | 25.0                   | 26.5  | 106   |       |       | 200.8  |
| Zinc      |                     |       |       | 25.0                   | 25.9  | 104   |       |       | 200.8  |

**METALS**  
- 2b -  
**CRDL STANDARD FOR AA AND ICP**

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |     | CRDL Standard for ICP |                  |               |                |             |
|-----------|----------------------|-------|-----|-----------------------|------------------|---------------|----------------|-------------|
|           | True                 | Found | %R  | Initial<br>True       | Initial<br>Found | Initial<br>%R | Final<br>Found | Final<br>%R |
| Aluminum  |                      |       |     | 50.0                  | 48.5             | 97            |                |             |
| Antimony  |                      |       |     | 0.05                  | 0.03             | 60            |                |             |
| Arsenic   |                      |       |     | 0.50                  | 0.67             | 134           |                |             |
| Barium    |                      |       |     | 5.0                   | 5.0              | 100           |                |             |
| Beryllium |                      |       |     | 0.020                 | 0.026            | 130           |                |             |
| Cadmium   |                      |       |     | 0.020                 | 0.022            | 110           |                |             |
| Calcium   |                      |       |     | 50.0                  | 51.4             | 103           |                |             |
| Chromium  |                      |       |     | 0.20                  | 0.27             | 135           |                |             |
| Cobalt    |                      |       |     | 0.020                 | 0.018            | 90            |                |             |
| Copper    |                      |       |     | 0.10                  | 0.14             | 140           |                |             |
| Iron      |                      |       |     | 20.0                  | 22.9             | 114           |                |             |
| Lead      |                      |       |     | 0.020                 | 0.026            | 130           |                |             |
| Magnesium |                      |       |     | 20.0                  | 21.4             | 107           |                |             |
| Manganese |                      |       |     | 5.0                   | 5.2              | 104           |                |             |
| Mercury   | 0.20                 | 0.21  | 105 |                       |                  |               |                |             |
| Nickel    |                      |       |     | 0.20                  | 0.37             | 185           |                |             |
| Potassium |                      |       |     | 400.0                 | 451.1            | 113           |                |             |
| Selenium  |                      |       |     | 1.0                   | 1.2              | 120           |                |             |
| Silver    |                      |       |     | 0.020                 | 0.022            | 110           |                |             |
| Sodium    |                      |       |     | 200.0                 | 215.9            | 108           |                |             |
| Thallium  |                      |       |     | 0.020                 | 0.024            | 120           |                |             |
| Vanadium  |                      |       |     | 0.20                  | 0.25             | 125           |                |             |
| Zinc      |                      |       |     | 0.50                  | 0.81             | 162           |                |             |

## METALS

- 3 -

## BLANKS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

Concentration Units: ug/L

| Analyte   | Initial Calib. Blank |   | Continuing Calibration Blank |   |        |   |        |   | Method |
|-----------|----------------------|---|------------------------------|---|--------|---|--------|---|--------|
|           |                      | C | 1                            | C | 2      | C | 3      | C |        |
| Aluminum  | -4.0                 | J | 2.0                          | U | 2.0    | U | 2.0    | U | 200.7  |
| Antimony  | -0.023               | J | -0.024                       | J | -0.031 | J | -0.024 | J | 200.8  |
| Arsenic   | 0.09                 | J | 0.07                         | J | 0.11   | J | 0.07   | U | 200.8  |
| Barium    | 0.4                  | U | 0.4                          | U | 0.5    | J | 0.4    | U | 200.7  |
| Beryllium | 0.003                | U | 0.003                        | U | 0.003  | U | 0.008  | J | 200.8  |
| Cadmium   | 0.003                | U | 0.003                        | U | 0.003  | U | 0.008  | J | 200.8  |
| Calcium   | 6.0                  | U | 6.0                          | U | -9.3   | J | 6.0    | U | 200.7  |
| Chromium  | 0.04                 | U | 0.04                         | U | 0.04   | U | 0.04   | U | 200.8  |
| Cobalt    | -0.012               | J | -0.008                       | J | 0.003  | U | 0.003  | U | 200.8  |
| Copper    | 0.02                 | U | 0.02                         | U | 0.02   | U | 0.02   | U | 200.8  |
| Iron      | 9.6                  | J | 7.2                          | J | 7.2    | J | 3.0    | U | 200.7  |
| Lead      | 0.005                | U | 0.005                        | U | 0.005  | U | 0.008  | J | 200.8  |
| Magnesium | 2.0                  | U | 2.0                          | U | 2.0    | U | -4.9   | J | 200.7  |
| Manganese | 0.3                  | J | 0.2                          | U | 0.2    | U | 0.2    | U | 200.7  |
| Mercury   | 0.02                 | U | 0.02                         | U | 0.02   | U |        |   | 245.1  |
| Nickel    | 0.09                 | J | 0.03                         | J | 0.03   | U | 0.03   | U | 200.8  |
| Potassium | 50                   | U | 50                           | U | 50     | U | 50     | U | 200.7  |
| Selenium  | 0.3                  | U | 0.3                          | U | 0.3    | U | 0.3    | U | 200.8  |
| Silver    | -0.006               | J | -0.006                       | J | -0.004 | J | 0.009  | J | 200.8  |
| Sodium    | 20.0                 | U | 20.0                         | U | -21.9  | J | 20.0   | U | 200.7  |
| Thallium  | 0.002                | U | 0.002                        | U | 0.002  | U | 0.010  | J | 200.8  |
| Vanadium  | 0.03                 | U | 0.03                         | U | 0.03   | U | 0.03   | U | 200.8  |
| Zinc      | 0.2                  | U | 0.2                          | U | 0.2    | U | 0.2    | U | 200.8  |

METALS

- 3 -

BLANKS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Concentration Units: ug/L

| Analyte   | Initial Calib. Blank |  | Continuing Calibration Blank |   |   |   |   |   | Method |
|-----------|----------------------|--|------------------------------|---|---|---|---|---|--------|
|           | C                    |  | 1                            | C | 2 | C | 3 | C |        |
| Aluminum  |                      |  | 2.0                          | U |   |   |   |   | 200.7  |
| Barium    |                      |  | 0.4                          | U |   |   |   |   | 200.7  |
| Calcium   |                      |  | 6.0                          | U |   |   |   |   | 200.7  |
| Iron      |                      |  | 5.5                          | J |   |   |   |   | 200.7  |
| Magnesium |                      |  | 2.0                          | U |   |   |   |   | 200.7  |
| Manganese |                      |  | 0.2                          | U |   |   |   |   | 200.7  |
| Potassium |                      |  | 50                           | U |   |   |   |   | 200.7  |
| Sodium    |                      |  | 20.0                         | U |   |   |   |   | 200.7  |



## METALS

- 4 -

## ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-03

ICS Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte   | True   |        | Initial Found |        |     | Final Found |        |    |
|-----------|--------|--------|---------------|--------|-----|-------------|--------|----|
|           | Sol.A  | Sol.AB | Sol.A         | Sol.AB | %R  | Sol.A       | Sol.AB | %R |
| Aluminum  | 500000 | 500000 | 488000        | 484500 | 97  |             |        |    |
| Barium    |        | 500    | 0             | 507    | 101 |             |        |    |
| Calcium   | 500000 | 500000 | 476600        | 481000 | 96  |             |        |    |
| Iron      | 200000 | 200000 | 183600        | 185900 | 93  |             |        |    |
| Magnesium | 500000 | 500000 | 487300        | 491600 | 98  |             |        |    |
| Manganese |        | 500    | 21            | 520    | 104 |             |        |    |
| Potassium |        |        | -69           | -62    |     |             |        |    |

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004467  
 Project No.: 0907194.000.0601 Units: UG/L  
 Project Name: Heglar Kronquist Basis: N/A  
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QCS

Lab Code: K1004452-001S

| Analyte | Control Limit %R | Spike Result C | Sample Result C | Spike Added | %R    | Q | Method |
|---------|------------------|----------------|-----------------|-------------|-------|---|--------|
| Mercury | 70 - 130         | 1.02           | 0.02 U          | 1.00        | 102.0 |   | 245.1  |

An empty field in the Control Limit column indicates the control limit is not applicable

## METALS

- 5A -

## SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: BH-13S

Lab Code: K1004467-001S DISS

| Analyte   | Control Limit %R | Spike Result | C | Sample Result | C | Spike Added | %R    | Q | Method |
|-----------|------------------|--------------|---|---------------|---|-------------|-------|---|--------|
| Aluminum  | 70 - 130         | 3570         |   | 1350          |   | 2000.00     | 111.0 |   | 200.7  |
| Antimony  | 70 - 130         | 19.6         |   | 0.39          |   | 20.00       | 96.0  |   | 200.8  |
| Arsenic   | 70 - 130         | 23.0         |   | 1.98          |   | 20.00       | 105.1 |   | 200.8  |
| Barium    | 70 - 130         | 2010         |   | 47.3          |   | 2000.00     | 98.1  |   | 200.7  |
| Beryllium | 70 - 130         | 20.9         |   | 0.074         |   | 20.00       | 104.1 |   | 200.8  |
| Cadmium   | 70 - 130         | 21.2         |   | 0.070         |   | 20.00       | 105.6 |   | 200.8  |
| Chromium  | 70 - 130         | 21.4         |   | 2.02          |   | 20.00       | 96.9  |   | 200.8  |
| Cobalt    | 70 - 130         | 22.4         |   | 2.470         |   | 20.00       | 99.6  |   | 200.8  |
| Copper    | 70 - 130         | 24.1         |   | 4.24          |   | 20.00       | 99.3  |   | 200.8  |
| Iron      | 70 - 130         | 3700         |   | 2570          |   | 1000.00     | 113.0 |   | 200.7  |
| Lead      | 70 - 130         | 21.4         |   | 2.300         |   | 20.00       | 95.5  |   | 200.8  |
| Manganese | 70 - 130         | 703          |   | 218           |   | 500.00      | 97.0  |   | 200.7  |
| Nickel    | 70 - 130         | 24.3         |   | 5.22          |   | 20.00       | 95.4  |   | 200.8  |
| Selenium  | 70 - 130         | 21.1         |   | 0.3           | J | 20.00       | 104.0 |   | 200.8  |
| Silver    | 70 - 130         | 20.1         |   | 0.010         | J | 20.00       | 100.4 |   | 200.8  |
| Thallium  | 70 - 130         | 19.4         |   | 0.015         | J | 20.00       | 96.9  |   | 200.8  |
| Vanadium  | 70 - 130         | 23.2         |   | 4.00          |   | 20.00       | 96.0  |   | 200.8  |
| Zinc      | 70 - 130         | 27.9         |   | 7.73          |   | 20.00       | 100.8 |   | 200.8  |

An empty field in the Control Limit column indicates the control limit is not applicable

METALS

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004467  
Project No.: 0907194.000.0601 Units: UG/L  
Project Name: Heglar Kronquist Basis: N/A  
Matrix: WATER

Sample Name: Batch QCA

Lab Code: K1004452-001A

| Analyte | Control Limit %R | Spike Result C | Sample Result C | Spike Added | %R  | Q | Method |
|---------|------------------|----------------|-----------------|-------------|-----|---|--------|
| Mercury | 85 - 115         | 1.07           | 0.02 U          | 1.00        | 107 |   | 245.1  |



METALS

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004467  
 Project No.: 0907194.000.0601 Units: UG/L  
 Project Name: Heglar Kronquist Basis: N/A  
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QCD

Lab Code: K1004452-001D

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | Method |
|---------|---------------|------------|---|---------------|---|-----|---|--------|
| Mercury |               | 0.02       | U | 0.02          | U |     |   | 245.1  |

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004467  
 Project No.: 0907194.000.0601 Units: UG/L  
 Project Name: Heglar Kronquist Basis: N/A  
 Matrix: WATER % Solids: 0.0

Sample Name: BH-13D

Lab Code: K1004467-001D DISS

| Analyte   | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD   | Q | Method |
|-----------|---------------|------------|---|---------------|---|-------|---|--------|
| Aluminum  | 20            | 1350       |   | 1370          |   | 1.5   |   | 200.7  |
| Antimony  | 20            | 0.39       |   | 0.37          |   | 5.3   |   | 200.8  |
| Arsenic   |               | 1.98       |   | 1.96          |   | 1.0   |   | 200.8  |
| Barium    | 20            | 47.3       |   | 48.2          |   | 1.9   |   | 200.7  |
| Beryllium |               | 0.074      |   | 0.073         |   | 1.4   |   | 200.8  |
| Cadmium   |               | 0.070      |   | 0.072         |   | 2.8   |   | 200.8  |
| Calcium   | 20            | 54600      |   | 56100         |   | 2.7   |   | 200.7  |
| Chromium  | 20            | 2.02       |   | 2.02          |   | 0.0   |   | 200.8  |
| Cobalt    | 20            | 2.470      |   | 2.470         |   | 0.0   |   | 200.8  |
| Copper    | 20            | 4.24       |   | 4.21          |   | 0.7   |   | 200.8  |
| Iron      | 20            | 2570       |   | 2620          |   | 1.9   |   | 200.7  |
| Lead      | 20            | 2.300      |   | 2.330         |   | 1.3   |   | 200.8  |
| Magnesium | 20            | 17900      |   | 18400         |   | 2.8   |   | 200.7  |
| Manganese | 20            | 218        |   | 224           |   | 2.7   |   | 200.7  |
| Nickel    | 20            | 5.22       |   | 5.18          |   | 0.8   |   | 200.8  |
| Potassium | 20            | 5170       |   | 5350          |   | 3.4   |   | 200.7  |
| Selenium  |               | 0.3        | J | 0.4           | J | 28.6  |   | 200.8  |
| Silver    |               | 0.010      | J | 0.004         | U | 200.0 |   | 200.8  |
| Sodium    | 20            | 17800      |   | 18200         |   | 2.2   |   | 200.7  |
| Thallium  |               | 0.015      | J | 0.014         | J | 6.9   |   | 200.8  |
| Vanadium  | 20            | 4.00       |   | 3.95          |   | 1.3   |   | 200.8  |
| Zinc      | 20            | 7.73       |   | 7.70          |   | 0.4   |   | 200.8  |

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

| Analyte   | Aqueous: ug/L |       |       | Solid: mg/kg |       |   |        |    |
|-----------|---------------|-------|-------|--------------|-------|---|--------|----|
|           | True          | Found | %R    | True         | Found | C | Limits | %R |
| Aluminum  | 5000          | 5020  | 100.4 |              |       |   |        |    |
| Antimony  | 20            | 20.6  | 103.0 |              |       |   |        |    |
| Arsenic   | 20            | 21.1  | 105.5 |              |       |   |        |    |
| Barium    | 5000          | 5280  | 105.6 |              |       |   |        |    |
| Beryllium | 20            | 21.5  | 107.5 |              |       |   |        |    |
| Cadmium   | 20            | 21.1  | 105.5 |              |       |   |        |    |
| Calcium   | 12500         | 13100 | 104.8 |              |       |   |        |    |
| Chromium  | 20            | 21.0  | 105.0 |              |       |   |        |    |
| Cobalt    | 20            | 21.0  | 105.0 |              |       |   |        |    |
| Copper    | 20            | 21.4  | 107.0 |              |       |   |        |    |
| Iron      | 2500          | 2630  | 105.2 |              |       |   |        |    |
| Lead      | 20            | 20.3  | 101.5 |              |       |   |        |    |
| Magnesium | 12500         | 13000 | 104.0 |              |       |   |        |    |
| Manganese | 1250          | 1310  | 104.8 |              |       |   |        |    |
| Mercury   | 5             | 5.24  | 104.8 |              |       |   |        |    |
| Nickel    | 20            | 20.9  | 104.5 |              |       |   |        |    |
| Potassium | 12500         | 13100 | 104.8 |              |       |   |        |    |
| Selenium  | 20            | 21.4  | 107.0 |              |       |   |        |    |
| Silver    | 20            | 21.0  | 105.0 |              |       |   |        |    |
| Sodium    | 12500         | 12700 | 101.6 |              |       |   |        |    |
| Thallium  | 20            | 20.5  | 102.5 |              |       |   |        |    |
| Vanadium  | 20            | 20.7  | 103.5 |              |       |   |        |    |
| Zinc      | 20            | 21.7  | 108.5 |              |       |   |        |    |

METALS

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglär Kronquist

Sample Name: BH-13L

Lab Code: K1004467-001L DISS

| Analyte   | Initial Sample<br>Result (I)<br>C | Serial Dilution<br>Result (S)<br>C | %<br>Differ-<br>ence | Q | M |
|-----------|-----------------------------------|------------------------------------|----------------------|---|---|
| Aluminum  | 1349.0                            | 1547.5                             | 14.7                 | E | P |
| Barium    | 47.3                              | 49.0                               | 3.6                  |   | P |
| Calcium   | 54550                             | 55700                              | 2.1                  |   | P |
| Iron      | 2571.0                            | 2699.0                             | 5.0                  |   | P |
| Magnesium | 17860.0                           | 18015.0                            | 0.9                  |   | P |
| Manganese | 218.1                             | 224.0                              | 2.7                  |   | P |
| Potassium | 5172                              | 5255                               | 1.6                  |   | P |
| Sodium    | 17800                             | 17750                              | 0.3                  |   | P |



METALS

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

| Analyte   | Wave-length (nm) | Back-ground | MRL ug/L | MDL ug/L | M |
|-----------|------------------|-------------|----------|----------|---|
| Aluminum  | 394.4            |             | 50       | 2.0      | P |
| Barium    | 455.4            |             | 5.0      | 0.4      | P |
| Calcium   | 315.8            |             | 50       | 6.0      | P |
| Iron      | 259.9            |             | 20       | 3.0      | P |
| Magnesium | 285.2            |             | 20       | 2.0      | P |
| Manganese | 257.6            |             | 5.0      | 0.2      | P |
| Potassium | 766.5            |             | 400      | 50       | P |
| Sodium    | 589.5            |             | 200      | 20.0     | P |

Comments:

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METALS

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP/ICP-MS ID #: K-ICP-MS-02

GFAA ID #:

AA ID #:

| Analyte   | Isotope | Back-ground | MRL<br>ug/L | MDL<br>ug/L | M  |
|-----------|---------|-------------|-------------|-------------|----|
| Antimony  | 123     |             | 0.05        | 0.02        | MS |
| Arsenic   | 75      |             | 0.5         | 0.07        | MS |
| Beryllium | 9       |             | 0.02        | 0.003       | MS |
| Cadmium   | 111     |             | 0.02        | 0.003       | MS |
| Chromium  | 52      |             | 0.2         | 0.04        | MS |
| Cobalt    | 59      |             | 0.02        | 0.003       | MS |
| Copper    | 65      |             | 0.1         | 0.02        | MS |
| Lead      | 208     |             | 0.02        | 0.005       | MS |
| Nickel    | 60      |             | 0.2         | 0.03        | MS |
| Selenium  | 82      |             | 1.0         | 0.3         | MS |
| Silver    | 107     |             | 0.02        | 0.004       | MS |
| Thallium  | 205     |             | 0.02        | 0.002       | MS |
| Vanadium  | 51      |             | 0.2         | 0.03        | MS |
| Zinc      | 66      |             | 0.5         | 0.20        | MS |

Comments:

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METALS

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: K-CVAA-01

| Analyte | Wave-length (nm) | Back-ground | MRL ug/L | MDL ug/L | M  |
|---------|------------------|-------------|----------|----------|----|
| Mercury | 253.70           |             | 0.2      | 0.02     | CV |

Comments:

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## METALS

- 11A -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

| Analyte    | Wave-length<br>(nm) | Interelement Correction Factors for: |           |            |           |            |
|------------|---------------------|--------------------------------------|-----------|------------|-----------|------------|
|            |                     | Al                                   | Ca        | Fe         | Mg        | Co         |
| Aluminum   | 167.079             | 0.0000000                            | 0.0000000 | 0.0019280  | 0.0000000 | 0.0000000  |
| Aluminum   | 394.401             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Antimony   | 206.833             | 0.0000000                            | 0.0000000 | -0.0000650 | 0.0000000 | 0.0000000  |
| Arsenic    | 189.042             | 0.0000430                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Barium     | 455.403             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Beryllium  | 234.861             | 0.0000000                            | 0.0000000 | 0.0000080  | 0.0000000 | 0.0000000  |
| Boron      | 249.678             | 0.0000000                            | 0.0000000 | -0.0001930 | 0.0000000 | 0.0019780  |
| Cadmium    | 226.502             | 0.0000000                            | 0.0000000 | 0.0000910  | 0.0000000 | -0.0001330 |
| Calcium    | 315.887             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0018230  |
| Calcium    | 393.366             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Chromium   | 267.716             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000070 | 0.0000000  |
| Cobalt     | 230.786             | 0.0000000                            | 0.0000000 | 0.0000140  | 0.0000000 | 0.0000000  |
| Copper     | 327.396             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Iron       | 259.94              | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Lead       | 220.353             | -0.0000370                           | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Lithium    | 670.784             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Magnesium  | 279.079             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Magnesium  | 279.553             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Magnesium  | 285.213             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Manganese  | 257.61              | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Molybdenum | 202.03              | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Nickel     | 221.647             | 0.0000060                            | 0.0000000 | 0.0000130  | 0.0000000 | 0.0000000  |
| Phosphorus | 214.914             | -0.0008250                           | 0.0000000 | 0.0009490  | 0.0000000 | 0.0000000  |
| Potassium  | 766.491             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Selenium   | 196.0               | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Silicon    | 251.611             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Silver     | 328.068             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Sodium     | 588.995             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Sodium     | 589.592             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Strontium  | 407.771             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000  |
| Thallium   | 190.856             | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000 | 0.0016260  |

Comments:



METALS

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

|          |         |           |           |            |           |           |
|----------|---------|-----------|-----------|------------|-----------|-----------|
| Tin      | 189.989 | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000 |
| Titanium | 336.121 | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000280 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000220  | 0.0000000 | 0.0000000 |
| Zinc     | 206.2   | 0.0000000 | 0.0000000 | -0.0000570 | 0.0000000 | 0.0000000 |

Comments:

## METALS

- 11B -

## ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

| Analyte    | Wave-length<br>(nm) | Interelement Correction Factors for: |            |            |            |           |
|------------|---------------------|--------------------------------------|------------|------------|------------|-----------|
|            |                     | Cr                                   | Mn         | Mo         | Ni         | Si        |
| Aluminum   | 167.079             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Aluminum   | 394.401             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Antimony   | 206.833             | 0.0126720                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Arsenic    | 189.042             | 0.0005400                            | 0.0000000  | 0.0004600  | 0.0000000  | 0.0000000 |
| Barium     | 455.403             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Beryllium  | 234.861             | 0.0000000                            | -0.0000220 | -0.0001550 | -0.0000290 | 0.0000000 |
| Boron      | 249.678             | 0.0002310                            | 0.0000000  | -0.0008330 | 0.0000000  | 0.0000000 |
| Cadmium    | 226.502             | 0.0000000                            | 0.0000000  | 0.0000360  | 0.0000000  | 0.0000000 |
| Calcium    | 315.887             | 0.0000000                            | 0.0000000  | -0.0013850 | 0.0000000  | 0.0000000 |
| Calcium    | 393.366             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Chromium   | 267.716             | 0.0000000                            | 0.0000920  | 0.0000000  | 0.0000000  | 0.0000000 |
| Cobalt     | 230.786             | -0.0000550                           | 0.0000310  | -0.0082200 | 0.0004230  | 0.0000000 |
| Copper     | 327.396             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Iron       | 259.94              | 0.0000000                            | 0.0000000  | -0.0002380 | 0.0000000  | 0.0000000 |
| Lead       | 220.353             | 0.0000000                            | 0.0000000  | -0.0064070 | 0.0000000  | 0.0001690 |
| Lithium    | 670.784             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Magnesium  | 279.079             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Magnesium  | 279.553             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Magnesium  | 285.213             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Manganese  | 257.61              | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Molybdenum | 202.03              | 0.0000490                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Nickel     | 221.647             | -0.0002770                           | 0.0000000  | 0.0000000  | 0.0000000  | 0.0002490 |
| Phosphorus | 214.914             | 0.0000000                            | -0.0011200 | 0.0084760  | 0.0000000  | 0.0000000 |
| Potassium  | 766.491             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Selenium   | 196.0               | 0.0000000                            | 0.0010370  | 0.0000000  | 0.0000000  | 0.0000000 |
| Silicon    | 251.611             | 0.0000000                            | 0.0000000  | 0.0078910  | 0.0000000  | 0.0000000 |
| Silver     | 328.068             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Sodium     | 588.995             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Sodium     | 589.592             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Strontium  | 407.771             | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Thallium   | 190.856             | 0.0002230                            | 0.0007110  | 0.0000000  | 0.0000000  | 0.0000000 |

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

|          |         |            |           |            |           |           |
|----------|---------|------------|-----------|------------|-----------|-----------|
| Tin      | 189.989 | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 | 0.0000000 |
| Titanium | 336.121 | 0.0000000  | 0.0000000 | 0.0000380  | 0.0001210 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000  | 0.0000000 | -0.0078980 | 0.0000000 | 0.0000000 |
| Zinc     | 206.2   | -0.0001370 | 0.0000000 | 0.0005030  | 0.0000000 | 0.0000000 |

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

| Analyte    | Wave-length (nm) | Interelement Correction Factors for: |            |  |  |
|------------|------------------|--------------------------------------|------------|--|--|
|            |                  | Ti                                   | V          |  |  |
| Aluminum   | 167.079          | 0.0000000                            | 0.0000000  |  |  |
| Aluminum   | 394.401          | 0.0000000                            | 0.0006800  |  |  |
| Antimony   | 206.833          | 0.0002810                            | 0.0000000  |  |  |
| Arsenic    | 189.042          | 0.0000000                            | 0.0000000  |  |  |
| Barium     | 455.403          | 0.0000000                            | 0.0000000  |  |  |
| Beryllium  | 234.861          | 0.0000000                            | 0.0000000  |  |  |
| Boron      | 249.678          | 0.0000000                            | 0.0000000  |  |  |
| Cadmium    | 226.502          | 0.0000300                            | 0.0000000  |  |  |
| Calcium    | 315.887          | 0.0000000                            | 0.0000000  |  |  |
| Calcium    | 393.366          | 0.0000000                            | 0.0000000  |  |  |
| Chromium   | 267.716          | 0.0000000                            | -0.0000780 |  |  |
| Cobalt     | 230.786          | 0.0000000                            | 0.0000000  |  |  |
| Copper     | 327.396          | 0.0000840                            | -0.0000420 |  |  |
| Iron       | 259.94           | 0.0000000                            | 0.0000000  |  |  |
| Lead       | 220.353          | -0.0005950                           | 0.0000000  |  |  |
| Lithium    | 670.784          | 0.0000000                            | 0.0000000  |  |  |
| Magnesium  | 279.079          | 0.0000000                            | 0.0000000  |  |  |
| Magnesium  | 279.553          | 0.0000000                            | 0.0000000  |  |  |
| Magnesium  | 285.213          | 0.0000000                            | 0.0000000  |  |  |
| Manganese  | 257.61           | 0.0000000                            | 0.0000000  |  |  |
| Molybdenum | 202.03           | 0.0000000                            | 0.0000000  |  |  |
| Nickel     | 221.647          | -0.0006910                           | 0.0000000  |  |  |
| Phosphorus | 214.914          | 0.0000000                            | -0.0043120 |  |  |
| Potassium  | 766.491          | 0.0000000                            | 0.0000000  |  |  |
| Selenium   | 196.0            | 0.0000000                            | 0.0000000  |  |  |
| Silicon    | 251.611          | 0.0000000                            | 0.0000000  |  |  |
| Silver     | 328.068          | -0.0001050                           | 0.0000730  |  |  |
| Sodium     | 588.995          | 0.0000000                            | 0.0000000  |  |  |
| Sodium     | 589.592          | 0.0000000                            | 0.0000000  |  |  |
| Strontium  | 407.771          | 0.0000000                            | 0.0000000  |  |  |
| Thallium   | 190.856          | -0.0008150                           | -0.0087710 |  |  |

Comments:



METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-03

|          |         |            |           |  |  |  |
|----------|---------|------------|-----------|--|--|--|
| Tin      | 189.989 | -0.0012350 | 0.0000000 |  |  |  |
| Titanium | 336.121 | 0.0000000  | 0.0000000 |  |  |  |
| Vanadium | 292.402 | 0.0003520  | 0.0000000 |  |  |  |
| Zinc     | 206.2   | 0.0000000  | 0.0000000 |  |  |  |

Comments:

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METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

ICP ID Number: K-ICP-AES-03

| Analyte   | Integ. Time (Sec.) | Concentration (ug/L) | Method |
|-----------|--------------------|----------------------|--------|
| Aluminum  | 15.000             | 900000               | 200.7  |
| Barium    | 15.000             | 45000                | 200.7  |
| Calcium   | 15.000             | 900000               | 200.7  |
| Iron      | 15.000             | 360000               | 200.7  |
| Magnesium | 15.000             | 540000               | 200.7  |
| Manganese | 15.000             | 180000               | 200.7  |
| Potassium | 15.000             | 900000               | 200.7  |
| Sodium    | 15.000             | 900000               | 200.7  |

Comments:

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

ICP ID Number: K-ICP-MS-02

| Analyte   | Integ. Time (Sec.) | Concentration (ug/L) | Method |
|-----------|--------------------|----------------------|--------|
| Antimony  | 15.000             | 900                  | 200.8  |
| Arsenic   | 15.000             | 900                  | 200.8  |
| Beryllium | 15.000             | 450                  | 200.8  |
| Cadmium   | 15.000             | 900                  | 200.8  |
| Chromium  | 15.000             | 900                  | 200.8  |
| Cobalt    | 15.000             | 900                  | 200.8  |
| Copper    | 15.000             | 900                  | 200.8  |
| Lead      | 15.000             | 900                  | 200.8  |
| Nickel    | 15.000             | 900                  | 200.8  |
| Selenium  | 15.000             | 900                  | 200.8  |
| Silver    | 15.000             | 270                  | 200.8  |
| Thallium  | 15.000             | 450                  | 200.8  |
| Vanadium  | 15.000             | 900                  | 200.8  |
| Zinc      | 15.000             | 900                  | 200.8  |

Comments:

METALS  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Method: MS

| Sample ID          | Preparation Date | Initial Volume | Final Volume (mL) |
|--------------------|------------------|----------------|-------------------|
| K1004467-001 DISS  | 5/8/2010         | 50.0           | 50.0              |
| K1004467-001D DISS | 5/8/2010         | 50.0           | 50.0              |
| K1004467-001S DISS | 5/8/2010         | 50.0           | 50.0              |
| K1004467-MB        | 5/8/2010         | 50.0           | 50.0              |
| LCSW               | 5/8/2010         | 50.0           | 50.0              |



METALS  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Method: P

| Sample ID          | Preparation Date | Initial Volume | Final Volume (mL) |
|--------------------|------------------|----------------|-------------------|
| K1004467-001 DISS  | 5/8/2010         | 50.0           | 50.0              |
| K1004467-001D DISS | 5/8/2010         | 50.0           | 50.0              |
| K1004467-001S DISS | 5/8/2010         | 50.0           | 50.0              |
| K1004467-MB        | 5/8/2010         | 50.0           | 50.0              |
| LCSW               | 5/8/2010         | 50.0           | 50.0              |

METALS  
-13-  
PREPARATION LOG

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Method: CV

| Sample ID         | Preparation Date | Initial Volume | Final Volume (mL) |
|-------------------|------------------|----------------|-------------------|
| K1004452-001D     | 5/10/2010        | 20.0           | 20.0              |
| K1004452-001S     | 5/10/2010        | 20.0           | 20.0              |
| K1004467-001 DISS | 5/10/2010        | 20.0           | 20.0              |
| K1004467-MB       | 5/10/2010        | 20.0           | 20.0              |
| LCSW              | 5/10/2010        | 20.0           | 20.0              |

METALS  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 5/11/2010

End Date: 5/11/2010

| Sample No.        | D/F | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------------|-----|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   |     |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | N<br>A | T<br>L | V<br>L | Z<br>N |
| BLK               | 1   | 12:00 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| STD A             | 1   | 12:03 |     |          |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |
| STD B             | 1   | 12:06 |     | X        |        | X      |        | X      |        |        | X      | X      |        |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ICV1              | 1   | 12:10 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 12:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ICB1              | 1   | 12:16 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| CCV1              | 1   | 12:19 |     |          |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV1              | 1   | 12:24 |     | X        |        | X      |        | X      |        |        | X      | X      |        |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| CCB1              | 1   | 12:32 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| CRDL1             | 1   | 12:35 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 12:38 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ICSA              | 1   | 12:40 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ICSAB             | 1   | 12:45 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 12:48 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV2              | 1   | 12:56 |     |          |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV2              | 1   | 12:59 |     | X        |        | X      |        | X      |        |        | X      | X      |        |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| CCB2              | 1   | 13:06 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:11 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:15 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:19 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| K1004467-MB       | 1   | 13:22 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| LCSW              | 1   | 13:24 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:28 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:31 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:34 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:37 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:41 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV3              | 1   | 13:44 |     |          |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV3              | 1   | 13:47 |     | X        |        | X      |        | X      |        |        | X      | X      |        |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| CCB3              | 1   | 13:51 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 13:53 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| K1004467-001 DISS | 1   | 13:56 |     | X        |        | X      |        | X      |        |        | X      | X      | X      |        |        | X      |        | X      |        | X      |        |        |        |        |        |        |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

**METALS**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 5/11/2010

End Date: 5/11/2010

| Sample No.         | D/F | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|--------------------|-----|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
|                    |     |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | N<br>A | T<br>L | V<br>L | Z<br>N | C<br>N |  |  |  |  |
| K1004467-001D DISS | 1   | 14:00 |     | X        |        |        | X      |        |        | X      |        |        |        | X      | X      | X      |        |        | X      |        |        | X      |        |        |        |        |        |  |  |  |  |
| K1004467-001L DISS | 5   | 14:03 |     | X        |        |        | X      |        |        | X      |        |        |        | X      | X      | X      |        |        | X      |        |        | X      |        |        |        |        |        |  |  |  |  |
| K1004467-001S DISS | 1   | 14:07 |     | X        |        |        | X      |        |        |        |        |        |        | X      |        | X      |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:10 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:17 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:21 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:24 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| CCV4               | 1   | 14:27 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| CCV4               | 1   | 14:30 |     | X        |        |        | X      |        |        | X      |        |        |        | X      | X      |        |        |        | X      |        |        | X      |        |        |        |        |        |  |  |  |  |
| CCB4               | 1   | 14:33 |     | X        |        |        | X      |        |        | X      |        |        |        | X      | X      | X      |        |        | X      |        |        | X      |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:36 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:39 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:42 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:45 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:48 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:51 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:55 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 14:58 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:01 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:04 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:07 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:10 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:16 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:19 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:22 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:25 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:28 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:31 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:34 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| ZZZZZZ             | 1   | 15:38 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



**METALS**  
- 14 -  
**ANALYSIS RUN LOG**

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 5/11/2010

End Date: 5/11/2010

| Sample No. | D/F | Time  | % R | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |     |       |     | A L      | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T A | V L | Z N | C N |
| ZZZZZZ     | 1   | 17:26 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:29 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:33 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:35 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:46 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:49 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:52 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 17:57 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:00 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:03 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:06 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:14 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:17 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:20 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:23 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:26 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:29 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:32 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:35 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:38 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:43 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:46 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:49 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 18:52 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:00 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:09 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:18 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:21 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:24 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ZZZZZZ     | 1   | 19:27 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
- 14 -  
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004467

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 5/12/2010

End Date: 5/12/2010

| Sample No.         | D/F | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
|--------------------|-----|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|--|--|
|                    |     |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K | S<br>E | A<br>G | N<br>A | T<br>L | V | Z<br>N | C<br>N |  |  |  |  |
| Cal. Blk           | 1   | 13:10 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| Cal. Stn           | 1   | 13:15 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| ICV1               | 1   | 13:20 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| CCV1               | 1   | 13:24 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| ICB1               | 1   | 13:54 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| CCB1               | 1   | 13:58 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| CRDL1              | 1   | 14:03 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:08 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:18 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:23 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:27 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:32 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 14:37 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| CCV2               | 1   | 14:41 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| CCB2               | 1   | 14:58 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| K1004467-MB        | 1   | 15:03 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| K1004467-001 DISS  | 1   | 15:09 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| K1004467-001D DISS | 1   | 15:13 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| K1004467-001S DISS | 1   | 15:18 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| LCSW               | 1   | 15:22 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| ZZZZZ              | 1   | 15:30 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 15:36 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 15:41 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 15:49 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 15:56 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| CCV3               | 1   | 16:02 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| CCB3               | 1   | 16:17 |     |          | X      | X      |        | X      | X      |        | X      | X      | X      |        | X      |        |        |        | X      | X | X      |        | X      | X      | X |        |        |  |  |  |  |
| ZZZZZ              | 1   | 16:22 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 16:27 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 16:34 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZ              | 1   | 16:40 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |   |        |        |  |  |  |  |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

**METALS**  
- 14 -  
**ANALYSIS RUN LOG**

**Client:** Exponent

**Service Request:** K1004467

**Project No.:** 0907194.000.0601

**Project Name:** Heglar Kronquist

**Instrument ID Number:** K-CVAA-01

**Method:** CV

**Start Date:** 5/12/2010

**End Date:** 5/12/2010

| Sample No.        | D/F | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------------|-----|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   |     |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | N<br>A | T<br>L | V<br>L | Z<br>N | C<br>N |
| Standard #1       | 1   | 14:10 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| Standard #2       | 1   | 14:11 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| Standard #3       | 1   | 14:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| Standard #4       | 1   | 14:15 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| Standard #5       | 1   | 14:17 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ICV1              | 1   | 14:18 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ICB1              | 1   | 14:20 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| CCV1              | 1   | 14:22 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| CCB1              | 1   | 14:24 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| CRDL1             | 1   | 14:25 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| K1004467-MB       | 1   | 14:27 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| LCSW              | 1   | 14:29 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:31 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| K1004452-001A     | 1   | 14:33 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| K1004452-001D     | 1   | 14:34 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| K1004452-001S     | 1   | 14:36 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:38 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| K1004467-001 DISS | 1   | 14:40 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:41 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV2              | 1   | 14:43 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| CCB2              | 1   | 14:45 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:47 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:49 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:50 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:52 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:54 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:56 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:57 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 14:59 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 15:01 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 15:03 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ            | 1   | 15:05 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                   |     |       |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



**Prep Workflow:** MetDigAqICP **Status:** Prepped **Prep Date:** 05/08/2010  
**Prep Run:** 110987 **EPA** **Current Step:** Digestion **Due Date:** 09:00  
**Team:** Metals **Prep Method:** 3010A,EPA  
**Analyst:** B.SHELDON **ILM04.0,**  
**Rush/NPDES:** NPDES

| Lab Code                      | Client ID          | Bottle # | Initial Amt | Final Volume | Spike Amt                                      | Spike ID                                  | TestNo List                  | Comments     |
|-------------------------------|--------------------|----------|-------------|--------------|--|---|------------------------------|--------------|
| KQ1004066-01                  | Method Blank       |          | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| KQ1004066-02                  | Lab Control Sample |          | 50 mL       | 50 mL        | 0.25 mL<br>0.25 mL<br>0.25 mL<br>0.5 mL        | 12778<br>12779<br>14972<br>16626          | Metals T                     | 1%HNO3,5%HCl |
| KQ1004066-03                  | Lab Control Sample |          | 50 mL       | 50 mL        | 0.5 mL   | 15209                                     | Metals D, Metals T, Metals T | 1%HNO3,5%HCl |
| K1004381-001                  | Stormwater         | .03      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004407-001                  | INF-050410         | .04      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004407-002                  | EFF-050410         | .04      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004407-003                  | EFFD-050410        | .04      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004414-001                  | BRUVPilot1:BA92292 | .03      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004467-001                  | BH-13              | .05      | 50 mL       | 50 mL        |  |   | Metals D                     | 1%HNO3,5%HCl |
| K1004467-001:<br>KQ1004066-04 | Duplicate          | .05      | 50 mL       | 50 mL        |  |   | Metals D                     | 1%HNO3,5%HCl |
| K1004467-001:<br>KQ1004066-05 | Matrix Spike       | .05      | 50 mL       | 50 mL        | 0.5 mL<br>0.5 mL<br>0.5 mL<br>0.5 mL<br>0.5 mL | 15209<br>16626<br>16678<br>17064<br>17544 | Metals D                     | 1%HNO3,5%HCl |
| K1004469-010                  | S9Z                | .01      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004488-002                  | OF 002             | .05      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |
| K1004502-005                  | Set 1-4 Composite  | .11      | 50 mL       | 50 mL        |  |   | Metals T                     | 1%HNO3,5%HCl |

14 Total Samples consisting of 9 Client Samples, 2 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

| Name             | Type  | ID    | Expires   | Name                  | Type  | ID    | Expires    |
|------------------|-------|-------|-----------|-----------------------|-------|-------|------------|
| K-MET QCP-CICV-1 | Spike | 12779 | 10/1/2010 | K-MET SS3             | Spike | 17064 | 12/1/2010  |
| K-MET QCP-CICV-2 | Spike | 12778 | 7/1/2010  | K-MET SS4             | Spike | 16626 | 10/1/2010  |
| K-MET QCP-CICV-3 | Spike | 14972 | 1/28/2011 | K-MET SS5             | Spike | 16678 | 5/19/2010  |
| K-MET SS1        | Spike | 17544 | 9/11/2010 | Silicon 1000 ug/mL Si | Spike | 15209 | 10/26/2010 |

**Preparation Materials**

| Step      | Name       | ID    | Step      | Name                       | ID    |
|-----------|------------|-------|-----------|----------------------------|-------|
| Digestion | K-MET HNO3 | 15193 | Digestion | K-MET 50ml Centrifuge Tube | 16850 |
| Digestion | K-MET HCL  | 16810 |           |                            |       |



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**Preparation Hardware / Equipment**

| Step      | Name               | Property    | Value |       |
|-----------|--------------------|-------------|-------|-------|
| Digestion | K-BlockDigester-06 | Temperature | 95    | deg C |

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**Preparation Steps**

| <u>Step</u> | <u>Started</u>     | <u>Finished</u>    | <u>By</u> | <u>Assisted By</u> | <u>Training?</u> | <u>Comments</u> |
|-------------|--------------------|--------------------|-----------|--------------------|------------------|-----------------|
| Digestion   | 08-MAY-10<br>09:00 | 08-MAY-10<br>12:00 | B.SHELDON | W.SCHUMAN          | N                |                 |

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**Comments**

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**Review**

Reviewed by:                      Date: 5/10/10

TUP

| Solution Name | Element | mL of 1000ppm Solution | Final Volume | Solution Conc. mg/L | Element Added |
|---------------|---------|------------------------|--------------|---------------------|---------------|
| K-MET SS1     | HNO3    | 50.0                   | 1000ml       | -                   | 0.5           |
|               | Al      | 100*                   | 1000ml       | 200                 |               |
|               | Ag      | 100*                   | 1000ml       | 5                   |               |
|               | Ba      | 100*                   | 1000ml       | 200                 |               |
|               | Be      | 100*                   | 1000ml       | 5                   |               |
|               | Cd      | 100*                   | 1000ml       | 5                   |               |
|               | Co      | 100*                   | 1000ml       | 50                  |               |
|               | Cr      | 100*                   | 1000ml       | 20                  |               |
|               | Cu      | 100*                   | 1000ml       | 25                  |               |
|               | Fe      | 100*                   | 1000ml       | 100                 |               |
|               | Pb      | 100*                   | 1000ml       | 50                  |               |
|               | Mn      | 100*                   | 1000ml       | 50                  |               |
|               | Ni      | 100*                   | 1000ml       | 50                  |               |
|               | Sn      | 50                     | 1000ml       | 50                  |               |
| V             | 100*    | 1000ml                 | 50           |                     |               |
| Zn            | 100*    | 1000ml                 | 50           |                     |               |
| K-MET SS2     | HNO3    | 25.0                   | 500ml        | -                   |               |
|               | As      | 2.0                    | 500ml        | 4                   |               |
|               | Cd      | 2.0                    | 500ml        | 4                   |               |
|               | Pb      | 2.0                    | 500ml        | 4                   |               |
|               | Se      | 2.0                    | 500ml        | 4                   |               |
|               | Tl      | 2.0                    | 500ml        | 4                   |               |
|               | Cu      | 2.0                    | 500ml        | 4                   |               |
| K-MET SS3     | HNO3    | 25.0                   | 500ml        | -                   | 0.5           |
|               | As      | 50.0                   | 500ml        | 100                 |               |
|               | Se      | 50.0                   | 500ml        | 100                 |               |
|               | Tl      | 50.0                   | 500ml        | 100                 |               |
| K-MET SS4     | HNO3    | 25                     | 500ml        | -                   | 0.5           |
|               | B       | 50                     | 500ml        | 100                 |               |
|               | Mn      | 50                     | 500ml        | 100                 |               |
| K-MET SS5     | HNO3    | 10.0                   | 200ml        | -                   | 0.5           |
|               | K**     | 20                     | 200ml        | 1000                |               |
|               | Na**    | 20                     | 200ml        | 1000                |               |
|               | Mg**    | 20                     | 200ml        | 1000                |               |
|               | Ca**    | 20                     | 200ml        | 1000                |               |

|                  |                   |             |        |      |      |
|------------------|-------------------|-------------|--------|------|------|
| K-MET GFICRW     | HNO3              | 10.0        | 1000ml | -    |      |
|                  | As, Pb, Se, Tl    | 5.0         | 1000ml | 2.5  |      |
|                  | Cd                | -           | -      | 1.25 |      |
|                  | Cu                | 2.5         | 1000ml | 2.5  |      |
| K-MET QCP-CICV-1 | Ca, Mg, Na, K     | no dilution | -      | 2500 | 0.25 |
|                  | Al, Br            | no dilution | -      | 1000 |      |
|                  | Fe                | no dilution | -      | 500  |      |
|                  | Co, Mn, Ni, V, Zn | no dilution | -      | 250  |      |
|                  | Cu, Ag            | no dilution | -      | 125  |      |
|                  | Cr                | no dilution | -      | 100  |      |
|                  | Be                | no dilution | -      | 25   |      |
| K-MET QCP-CICV-2 | Sn                | no dilution | -      | 500  | 0.25 |
| K-MET QCP-CICV-3 | As, Pb, Se, Tl    | no dilution | -      | 500  | 0.25 |
|                  | Cd                | no dilution | -      | 250  |      |

\* Denotes volume of mixed stock standard.

\*\* Denotes 10,000 ppm individual stock standards.

| Standard | mL of standard | ppm  | Logbook # | Exp. Date |
|----------|----------------|------|-----------|-----------|
| Si       | 0.5            | 1000 | MET-730   | 6/6/11    |
|          |                |      |           |           |
|          |                |      |           |           |
|          |                |      |           |           |
|          |                |      |           |           |
|          |                |      |           |           |
|          |                |      |           |           |

**Analytical Services**

**Prep Run:** 110986      **Prep Workflow:** MetDigAqMS      **Status:** Prepped      **Prep Date:** 05/08/2010  
**Team:** Metals      **Prep Method:** EPA CLP-      **Current Step:** Digestion      09:00  
**Analyst:** B.SHELDON      ILM04.0      **Due Date:** 05/10/2010  
**Rush/NPDES:** Both

| Lab Code                      | Client ID          | Bottle # | Initial Amt | Final Volume | Spike Amt    | Spike ID       | TestNo List        | Comments |
|-------------------------------|--------------------|----------|-------------|--------------|--------------|----------------|--------------------|----------|
| KQ1004065-01                  | Method Blank       |          | 50 mL       | 50 mL        |              |                | Metals D, Metals T | 1%HNO3   |
| KQ1004065-02                  | Lab Control Sample |          | 50 mL       | 50 mL        | 1 mL<br>1 mL | 11605<br>17425 | Metals D, Metals T | 1%HNO3   |
| K1004375-001                  | SW-1-0510-1        | .05      | 50 mL       | 50 mL        |              |                | Metals D           | 1%HNO3   |
| K1004375-001                  | SW-1-0510-1        | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004375-002                  | SW-3-0510-1        | .05      | 50 mL       | 50 mL        |              |                | Metals D           | 1%HNO3   |
| K1004375-002                  | SW-3-0510-1        | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004375-003                  | SW-5-0510-1        | .05      | 50 mL       | 50 mL        |              |                | Metals D           | 1%HNO3   |
| K1004375-003                  | SW-5-0510-1        | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004375-005                  | STW-001-0510-1     | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004414-001                  | BRUVPilot1:BA92292 | .03      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004417-001                  | Outfall 01         | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004467-001                  | BH-13              | .05      | 50 mL       | 50 mL        |              |                | Metals D           | 1%HNO3   |
| K1004467-001:<br>KQ1004065-03 | Duplicate          | .05      | 50 mL       | 50 mL        |              |                | Metals D           | 1%HNO3   |
| K1004467-001:<br>KQ1004065-04 | Matrix Spike       | .05      | 50 mL       | 50 mL        | 1 mL<br>1 mL | 11605<br>17425 | Metals D           | 1%HNO3   |
| K1004496-001                  | ED                 | .04      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004499-001                  | May Compliance     | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004502-005                  | Set 1-4 Composite  | .11      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004508-001                  | 002 Composite      | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004586-001                  | Roof Drain         | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004586-001:<br>KQ1004065-05 | Duplicate          | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004586-001:<br>KQ1004065-06 | Matrix Spike       | .01      | 50 mL       | 50 mL        | 1 mL<br>1 mL | 11605<br>17425 | Metals T           | 1%HNO3   |
| K1004589-001                  | 100502             | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004589-002                  | 100503             | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |
| K1004589-003                  | 100504             | .01      | 50 mL       | 50 mL        |              |                | Metals T           | 1%HNO3   |

|              |        |     |       |       |  |          |         |
|--------------|--------|-----|-------|-------|--|----------|---------|
| K1004589-004 | 100506 | .01 | 50 mL | 50 mL |  | Metals T | 1% HNO3 |
|--------------|--------|-----|-------|-------|--|----------|---------|

22 Total Samples consisting of 16 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

**Spiking Solutions**

| Name                       | Type  | ID    | Expires    | Name                    | Type  | ID    | Expires   |
|----------------------------|-------|-------|------------|-------------------------|-------|-------|-----------|
| K-MET 200.8 1000ug/L Stock | Spike | 17425 | 10/24/2010 | K-MET Ag 1000 ppb Stock | Spike | 11605 | 8/17/2010 |

**Preparation Materials**

| Step      | Name              | ID    | Step      | Name                       | ID    |
|-----------|-------------------|-------|-----------|----------------------------|-------|
| Digestion | K-MET HN03 ULTREX | 16811 | Digestion | K-MET 50ml Centrifuge Tube | 16850 |

**Preparation Hardware / Equipment**


| Step      | Name               | Property    | Value    |
|-----------|--------------------|-------------|----------|
| Digestion | K-BlockDigester-06 | Temperature | 95 deg C |

**Preparation Steps**

| Step      | Started         | Finished        | By        | Assisted By | Training? | Comments |
|-----------|-----------------|-----------------|-----------|-------------|-----------|----------|
| Digestion | 08-MAY-10 09:00 | 08-MAY-10 12:00 | B.SHELDON | W.SCHUMAN   | N         |          |

**Comments**

**Review**

Reviewed by:  Date: 5/10/10



## CVAA Mercury Data Review Form

Element:           Hg          

Analysis Lot #:           200301          

Cal. STD/CCV Source:           HG1-91-U          

Service Request Numbers:

          K1004452, K1004467, K1004502, K1004571, K1004575, K1004635,            
          K1004516, K1004573          

|  | Yes                          | No                                | NA                                |
|--|------------------------------|-----------------------------------|-----------------------------------|
| 1) Appropriate standardization completed         | <u>          X          </u> | <u>                          </u> | <u>                          </u> |
| 2) ICV within 10% of true value                  | <u>          X          </u> | <u>                          </u> | <u>                          </u> |
| 3) CCVs in control                               | <u>          X          </u> | <u>                          </u> | <u>                          </u> |
| 4) CCBs and or ICBs below MRL                    | <u>          X          </u> | <u>                          </u> | <u>                          </u> |
| 5) All reported samples within calibration range | <u>          X          </u> | <u>                          </u> | <u>                          </u> |
| 6) Calculations correct                          | <u>          X          </u> | <u>                          </u> | <u>                          </u> |

Comments:

Data reviewed against service request(s) to ensure no samples were omitted:           MB           (initials)

Primary Reviewed By:           MAS          

Date:           5/12/10          

Secondary Reviewed By:           JOB          

Date:           5/12/10

|  |  |
|--|--|
| Method: (Circle One)<br>7470A 7471A <b>245.1</b> | Service Request # :<br>K1004452, K1004467, K1004502, K1004571, K1004575, K1004635,<br>K1004516, K1004573 |
| Analysis For: Hg                                 |  |

DATA

| Pos. | SAMPLE NUMBER | Initial Sample (g) or (mL) | Initial Dilution (mL) | Dilution Factor | Measured (µg/L) | Sample Actual (mg/kg) | Sample Actual (µg/L) |
|------|---------------|----------------------------|-----------------------|-----------------|-----------------|-----------------------|----------------------|
| 1    | ICV1          | ~                          | ~                     | ~               | 5.03            |                       | 101%                 |
| 2    | ICB1          | ~                          | ~                     | ~               | 0.00            |                       | < 0.2                |
| 3    | CCV1          | ~                          | ~                     | ~               | 5.29            |                       | 106%                 |
| 4    | CCB1          | ~                          | ~                     | ~               | 0.00            |                       | < 0.2                |
| 5    | CRA1          | ~                          | ~                     | ~               | 0.21            |                       | 105%                 |
| 6    | K1004452-MB   | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 7    | LCSW K1004452 | 100                        | 100                   | ~               | 5.24            |                       | 105%                 |
| 8    | K1004452-001  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 9    | K1004452-001A | 100                        | 100                   | ~               | 1.07            |                       | 107%                 |
| 10   | K1004452-001D | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 11   | K1004452-001S | 100                        | 100                   | ~               | 1.02            |                       | 102%                 |
| 12   | K1004452-004  | 100                        | 100                   | ~               | 0.05            |                       | 0.05                 |
| 13   | K1004467-001  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 14   | K1004502-005  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 15   | CCV2          | ~                          | ~                     | ~               | 5.23            |                       | 105%                 |
| 16   | CCB2          | ~                          | ~                     | ~               | 0.00            |                       | < 0.2                |
| 17   | K1004571-003  | 100                        | 100                   | ~               | 0.03            |                       | 0.03                 |
| 18   | K1004571-004  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 19   | K1004575-001  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 20   | K1004575-002  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 21   | K1004575-002D | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 22   | K1004575-003  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 23   | K1004575-003S | 100                        | 100                   | ~               | 1.04            |                       | 104%                 |
| 24   | K1004575-004  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 25   | K1004635-001  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |

Comments: Reporting Levels:

Soil/Tissue Spike Level:

Post Spike Level: 1.0 ppb

| Method            | Spike Level | MRL        | LCS Limit | MS Limit | RPD |
|-------------------|-------------|------------|-----------|----------|-----|
| 7470A Water       | 1.0 µg/L    | 0.2 µg/L   | 83-117%   | 76-126%  | 20% |
| 245.1 Water       | 1.0 µg/L    | 0.2 µg/L   | 85-115%   | 70-130%  | 20% |
| 7470A TCLP        | 5.0 µg/L    | 1.0 µg/L   | 85-115%   | 75-125%  | 20% |
| 7471A Soil LCSS   | 6.80 mg/kg  | 0.02 mg/kg | 72-128%   | 60-130%  | 30% |
| 7471A Tissue Tort | 0.27 mg/kg  | 0.02 mg/kg | 63-130%   | 60-130%  | 30% |

|                              |                         |                   |
|------------------------------|-------------------------|-------------------|
| Analyst:<br><i>Kulma G-H</i> | Date:<br><i>5/12/10</i> | Page Number:<br>1 |
|------------------------------|-------------------------|-------------------|

|   |                            |
|---|----------------------------|
| <b>Method:</b> (Circle One)<br>7470A 7471A <u>245.1</u> | <b>Service Request # :</b> |
| <b>Analysis For:</b> Hg                                 |                            |

**DATA**

| Pos. | SAMPLE NUMBER | Initial Sample (g) or (mL) | Initial Dilution (mL) | Dilution Factor | Measured (µg/L) | Sample Actual (mg/kg) | Sample Actual (µg/L) |
|------|---------------|----------------------------|-----------------------|-----------------|-----------------|-----------------------|----------------------|
| 26   | K1004635-002  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 27   | CCV3          | ~                          | ~                     | ~               | 5.13            |                       | 103%                 |
| 28   | CCB3          | ~                          | ~                     | ~               | -0.01           |                       | < 0.2                |
| 29   | K1004635-003  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 30   | K1004516-001  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 31   | K1004516-002  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 32   | K1004573-001  | 100                        | 100                   | ~               | 0.00            |                       | 0.00                 |
| 33   | K1004573-002  | 100                        | 100                   | ~               | 0.01            |                       | 0.01                 |
| 34   | CCV4          | ~                          | ~                     | ~               | 5.40            |                       | 108%                 |
| 35   | CCB4          | ~                          | ~                     | ~               | 0.00            |                       | < 0.2                |
| 36   |               |                            |                       |                 |                 |                       |                      |
| 37   |               |                            |                       |                 |                 |                       |                      |
| 38   |               |                            |                       |                 |                 |                       |                      |
| 39   |               |                            |                       |                 |                 |                       |                      |
| 40   |               |                            |                       |                 |                 |                       |                      |
| 41   |               |                            |                       |                 |                 |                       |                      |
| 42   |               |                            |                       |                 |                 |                       |                      |
| 43   |               |                            |                       |                 |                 |                       |                      |
| 44   |               |                            |                       |                 |                 |                       |                      |
| 45   |               |                            |                       |                 |                 |                       |                      |
| 46   |               |                            |                       |                 |                 |                       |                      |
| 47   |               |                            |                       |                 |                 |                       |                      |
| 48   |               |                            |                       |                 |                 |                       |                      |
| 49   |               |                            |                       |                 |                 |                       |                      |
| 50   |               |                            |                       |                 |                 |                       |                      |

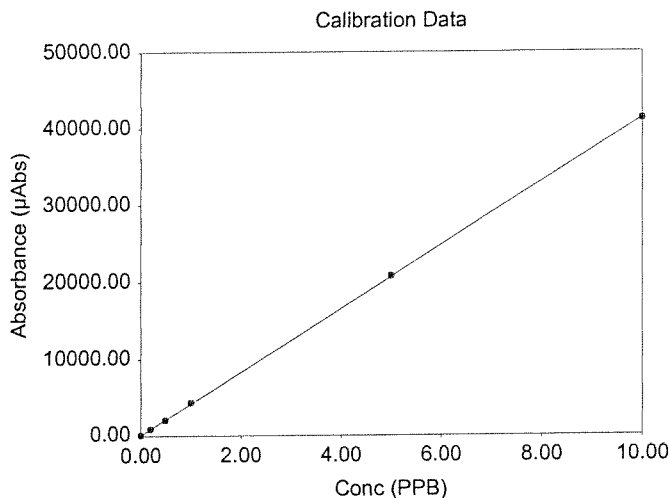
*MSS/12/10*

| <b>Comments: Reporting Levels:</b> |             |            |           |          |     |
|------------------------------------|-------------|------------|-----------|----------|-----|
| Soil/Tissue Spike Level:           |             |            |           |          |     |
| Post Spike Level:                  |             |            |           |          |     |
| Method                             | Spike Level | MRL        | LCS Limit | MS Limit | RPD |
| 7470A Water                        | 1.0 µg/L    | 0.2 µg/L   | 83-117%   | 76-126%  | 20% |
| 245.1 Water                        | 1.0 µg/L    | 0.2 µg/L   | 85-115%   | 70-130%  | 20% |
| 7470A TCLP                         | 5.0 µg/L    | 1.0 µg/L   | 85-115%   | 75-125%  | 20% |
| 7471A Soil LCSS                    | 6.80 mg/kg  | 0.02 mg/kg | 72-128%   | 60-130%  | 30% |
| 7471A Tissue Tort                  | 0.27 mg/kg  | 0.02 mg/kg | 63-130%   | 60-130%  | 30% |

|                                     |                               |                          |
|-------------------------------------|-------------------------------|--------------------------|
| <b>Analyst:</b><br><i>M. L. ...</i> | <b>Date:</b><br><i>1/2/10</i> | <b>Page Number:</b><br>2 |
|-------------------------------------|-------------------------------|--------------------------|

Analyst M SMITH  
 Date Started Wednesday, May 12, 2010, 14:08:19  
 Worksheet Hg 051210C  
 Comment K-CVAA-01

| Sample ID        | Analysis Time      | Conc (PPB) | %RSD | Avg. $\mu$ Abs | Readings |       |       |       | Flags |
|------------------|--------------------|------------|------|----------------|----------|-------|-------|-------|-------|
| Calibration Zero | 12-May-2010, 14:08 | 0.00       | 4.19 | 68.20          | 70       | 71    | 67    | 65    |       |
| Standard #1      | 12-May-2010, 14:10 | 0.20       | 0.71 | 877.00         | 875      | 883   | 881   | 869   |       |
| Standard #2      | 12-May-2010, 14:11 | 0.50       | 1.97 | 2050.00        | 2003     | 2025  | 2069  | 2092  |       |
| Standard #3      | 12-May-2010, 14:13 | 1.00       | 2.96 | 4330.00        | 4164     | 4293  | 4414  | 4445  |       |
| Standard #4      | 12-May-2010, 14:15 | 5.00       | 0.47 | 20800.00       | 20668    | 20782 | 20859 | 20888 |       |
| Standard #5      | 12-May-2010, 14:17 | 10.00      | 0.58 | 41200.00       | 40889    | 41100 | 41387 | 41371 |       |



Int. Slope 0.000  
 4128.529  
 Correlation 0.99997

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. $\mu$ Abs | Readings |       |       |       | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|-------|-------|-------|
| ICV1      | 12-May-2010, 14:18 | 5.03       | 0.24 | 20800.00       | 20711    | 20730 | 20767 | 20823 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD  | Avg. $\mu$ Abs | Readings |    |     |     | Flags |
|-----------|--------------------|------------|-------|----------------|----------|----|-----|-----|-------|
| ICB1      | 12-May-2010, 14:20 | -0.00      | 30.20 | -10.80         | -10      | -8 | -10 | -16 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. $\mu$ Abs | Readings |       |       |       | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|-------|-------|-------|
| CCV1      | 12-May-2010, 14:22 | 5.29       | 2.28 | 21800.00       | 21131    | 21801 | 22124 | 22239 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD  | Avg. $\mu$ Abs | Readings |     |     |     | Flags |
|-----------|--------------------|------------|-------|----------------|----------|-----|-----|-----|-------|
| CCB1      | 12-May-2010, 14:24 | -0.00      | 25.40 | -17.20         | -14      | -24 | -15 | -16 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. $\mu$ Abs | Readings |     |     |     | Flags |
|-----------|--------------------|------------|------|----------------|----------|-----|-----|-----|-------|
| CRA1      | 12-May-2010, 14:25 | 0.21       | 0.93 | 872.00         | 871      | 866 | 866 | 883 |       |

| Sample ID     | Analysis Time      | Conc (PPB) | %RSD   | Avg. $\mu$ Abs | Readings |       |       |       | Flags |
|---------------|--------------------|------------|--------|----------------|----------|-------|-------|-------|-------|
| K1004452-MB   | 12-May-2010, 14:27 | 0.00       | 45.50  | 14.30          | 20       | 8     | 10    | 20    |       |
| LCSW K1004452 | 12-May-2010, 14:29 | 5.24       | 0.51   | 21600.00       | 21557    | 21525 | 21670 | 21768 |       |
| K1004452-001  | 12-May-2010, 14:31 | -0.00      | 26.30  | -16.90         | -18      | -19   | -10   | -21   |       |
| K1004452-001A | 12-May-2010, 14:33 | 1.07       | 1.47   | 4410.00        | 4447     | 4439  | 4434  | 4310  |       |
| K1004452-001D | 12-May-2010, 14:34 | 0.00       | 25.50  | 17.70          | 14       | 24    | 17    | 16    |       |
| K1004452-001S | 12-May-2010, 14:36 | 1.02       | 0.69   | 4230.00        | 4254     | 4212  | 4195  | 4252  |       |
| K1004452-004  | 12-May-2010, 14:38 | 0.05       | 4.08   | 198.00         | 193      | 192   | 210   | 198   |       |
| K1004467-001  | 12-May-2010, 14:40 | 0.00       | 113.00 | 8.88           | 16       | 19    | 3     | -2    |       |
| K1004502-005  | 12-May-2010, 14:41 | 0.00       | 80.80  | 10.70          | 0        | 17    | 7     | 18    |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. $\mu$ Abs | Readings |       |       |       | Flags |
|-----------|--------------------|------------|------|----------------|----------|-------|-------|-------|-------|
| CCV2      | 12-May-2010, 14:43 | 5.23       | 0.88 | 21600.00       | 21329    | 21541 | 21670 | 21768 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD  | Avg. $\mu$ Abs | Readings |    |     |     | Flags |
|-----------|--------------------|------------|-------|----------------|----------|----|-----|-----|-------|
| CCB2      | 12-May-2010, 14:45 | -0.00      | 66.50 | -11.00         | -3       | -8 | -14 | -20 |       |

| Sample ID     | Analysis Time      | Conc (PPB) | %RSD  | Avg. $\mu$ Abs | Readings |     |     |     | Flags |
|---------------|--------------------|------------|-------|----------------|----------|-----|-----|-----|-------|
| K1004571-003  | 12-May-2010, 14:47 | 0.03       | 4.52  | 108.00         | 107      | 108 | 114 | 102 |       |
| K1004571-004  | 12-May-2010, 14:49 | 0.01       | 20.70 | 59.10          | 42       | 72  | 61  | 61  |       |
| K1004575-001  | 12-May-2010, 14:50 | 0.01       | 16.40 | 33.60          | 40       | 36  | 29  | 29  |       |
| K1004575-002  | 12-May-2010, 14:52 | 0.00       | 45.70 | 15.10          | 13       | 25  | 15  | 8   |       |
| K1004575-002D | 12-May-2010, 14:54 | 0.00       | 26.90 | 14.20          | 13       | 12  | 16  | 17  |       |



Analyst M SMITH  
 Date Started Wednesday, May 12, 2010, 14:56:10  
 Worksheet Hg 051210C  
 Comment K-CVAA-01

| Sample ID     | Analysis Time      | Conc (PPB) | %RSD  | Avg. µAbs | Readings            | Flags |
|---------------|--------------------|------------|-------|-----------|---------------------|-------|
| K1004575-003  | 12-May-2010, 14:56 | 0.00       | 29.80 | 17.00     | 13 14 17 24         |       |
| K1004575-003S | 12-May-2010, 14:57 | 1.04       | 0.35  | 4280.00   | 4260 4294 4283 4290 |       |
| K1004575-004  | 12-May-2010, 14:59 | -0.00      | 27.40 | -7.83     | -7 -5 -9 -10        |       |
| K1004635-001  | 12-May-2010, 15:01 | 0.00       | 26.60 | 8.91      | 11 8 10 6           |       |
| K1004635-002  | 12-May-2010, 15:03 | 0.01       | 13.80 | 22.60     | 26 21 19 24         |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. µAbs | Readings                | Flags |
|-----------|--------------------|------------|------|-----------|-------------------------|-------|
| CCV3      | 12-May-2010, 15:05 | 5.13       | 0.52 | 21200.00  | 21040 21154 21265 21278 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD  | Avg. µAbs | Readings        | Flags |
|-----------|--------------------|------------|-------|-----------|-----------------|-------|
| CCB3      | 12-May-2010, 15:06 | -0.01      | 31.90 | -20.80    | -20 -13 -29 -21 |       |

| Sample ID    | Analysis Time      | Conc (PPB) | %RSD   | Avg. µAbs | Readings    | Flags |
|--------------|--------------------|------------|--------|-----------|-------------|-------|
| K1004635-003 | 12-May-2010, 15:08 | 0.01       | 26.20  | 24.40     | 25 33 17 22 |       |
| K1004516-001 | 12-May-2010, 15:10 | 0.01       | 39.10  | 23.50     | 20 21 37 16 |       |
| K1004516-002 | 12-May-2010, 15:12 | 0.00       | 220.00 | 2.81      | 12 0 -0 -1  |       |
| K1004573-001 | 12-May-2010, 15:13 | 0.00       | 107.00 | 5.50      | 4 9 11 -2   |       |
| K1004573-002 | 12-May-2010, 15:15 | 0.01       | 4.99   | 28.10     | 29 28 26 29 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD | Avg. µAbs | Readings                | Flags |
|-----------|--------------------|------------|------|-----------|-------------------------|-------|
| CCV4      | 12-May-2010, 15:17 | 5.40       | 0.23 | 22300.00  | 22352 22257 22233 22298 |       |

| Sample ID | Analysis Time      | Conc (PPB) | %RSD  | Avg. µAbs | Readings | Flags |
|-----------|--------------------|------------|-------|-----------|----------|-------|
| CCB4      | 12-May-2010, 15:19 | 0.00       | 36.50 | 8.23      | 12 9 4 8 |       |

Columbia Analytical Services  
EPA METHOD 7470A

Service Request Number(s) : K1004452, K1004467, K1004502, K1004571, K1004575,  
PREP RUN: 111086, 111087 K1004635, K1004516, K1004573

| Sample                       | Initial Volume | Final Volume | Sample | Initial Volume | Final Volume |
|------------------------------|----------------|--------------|--------|----------------|--------------|
| MB                           | 100            | 100          |        |                |              |
| LCSW                         | 7              | 7            |        |                |              |
| K1004452-001                 |                |              |        |                |              |
| K1004452-001D                |                |              |        |                |              |
| K1004452-001S                |                |              |        |                |              |
| K1004452-004                 |                |              |        |                |              |
| K1004467-001                 |                |              |        |                |              |
| K1004467-001D <i>MS</i>      |                |              |        |                |              |
| K1004467-001S <i>5/10/10</i> |                |              |        |                |              |
| K1004502-005                 |                |              |        |                |              |
| K1004571-003                 |                |              |        |                |              |
| K1004571-004                 |                |              |        |                |              |
| K1004575-001                 |                |              |        |                |              |
| K1004575-002 <i>MS</i>       |                |              |        |                |              |
| K1004575-003 <i>3</i>        |                |              |        |                |              |
| K1004575-004 <i>4</i>        |                |              |        |                |              |
| K1004635-001                 |                |              |        |                |              |
| K1004635-002                 |                |              |        |                |              |
| K1004635-003                 |                |              |        |                |              |
| K1004516-001                 |                |              |        |                |              |
| K1004516-002                 |                |              |        |                |              |
| K1004573-001                 |                |              |        |                |              |
| K1004573-002                 |                |              |        |                |              |
| <i>K1004575-010</i>          |                |              |        |                |              |
| <i>-035</i>                  |                |              |        |                |              |
| Std. 0.2                     | 0.1 *          |              |        |                | 50           |
| Std. 0.5                     | 0.25 *         |              |        |                | 50           |
| Std. 1.0                     | 0.5 *          |              |        |                | 50           |
| Std. 5.0                     | 2.5 *          |              |        |                | 50           |
| Std. 10.0                    | 5.0 *          |              |        |                | 50           |
| ICV                          | 0.25 **        |              |        |                | 50           |

Start Time: *9:30* Finish Time: *3:20* Waterbath Temp.: 95° C  
Balance#: 1

Lot # of Reagents Used:  
HNO<sub>3</sub>: H14024      K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>: G19476      NaCl : G28620  
H<sub>2</sub>SO<sub>4</sub>: 47269      KMnO<sub>4</sub>: G25592      NH<sub>2</sub>OH-HCL: E31591  
HCL: 201002101      SnCl<sub>2</sub>: H45642      ERA CLP Soil: D065540

\* Source Standard: *461-91-4* 100 ppb      Spike = *1.0* ml \* Source Standard  
\*\*Source Standard: *ICV 461-91-* 1000 ppb      LCSW = *0.5* ml ICV \*\*Source Standard

Comments:  
  
Analyst: *Melinda C. Clark*      Date: *5/10/10*

Service Request # K1004467  
Instrument ID# K-ICP-AES-03

## ICP-OES Data Review Form

|  | Yes                                 | No                       |
|--|-------------------------------------|--------------------------|
| 1. Standardization completed   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. ICV within 10 % of true value   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. ICB below MRL   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. CRI standard analyzed.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. ICS standards within 20% of true value                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. All preceding CCVs within 10 % of true value                                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Following CCV within 10 % of true value                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Bracketing CCBs below MRL   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Method Blank below MRL  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. MS-MSD or Dup-MS and LCS within CAS control limits                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. All analytes within instrument linear range                                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. Adequate rinse out time allowed between samples to eliminate memory effect | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Comments:

StarLIMS Run # 199983      Saved under 051110BICP03  
Report Cd2265, Cu3273, Zn2138.

Primary Review by chunr      Date 5/11/10

Secondary Review by 3C      Date 5/12/10

Sample Name: BLK      Acquired: 5/11/2010 12:00:43      Type: Cal

Method: 2010a2007(v18)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .0006  | -53.96 | 7.307  | 3.408  | .0424  | .19686 | .9995  |
| Stddev | .0003  | 24.98  | .638   | .192   | .0016  | 7.8339 | 4.094  |
| %RSD   | 54.98  | 46.29  | 8.727  | 5.626  | 3.823  | 3979.5 | 409.6  |

|    |       |        |       |       |       |         |        |
|----|-------|--------|-------|-------|-------|---------|--------|
| #1 | .0004 | -71.63 | 6.856 | 3.273 | .0413 | 5.7362  | -1.895 |
| #2 | .0008 | -36.30 | 7.758 | 3.544 | .0435 | -5.3425 | 3.895  |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .0001  | -.0002 | 2.695  | .0038  | .0000  | .0013  | .0011  |
| Stddev | .0000  | .0001  | .002   | .0004  | .0002  | .0001  | .0001  |
| %RSD   | 48.57  | 45.71  | .0901  | 10.74  | 894.0  | 4.556  | 10.31  |

|    |       |        |       |       |        |       |       |
|----|-------|--------|-------|-------|--------|-------|-------|
| #1 | .0001 | -.0002 | 2.697 | .0035 | -.0001 | .0012 | .0012 |
| #2 | .0000 | -.0001 | 2.694 | .0041 | .0001  | .0013 | .0010 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cu3273 | Fe2599 | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | -41.55 | -.0005 | .0023  | -.0005 | 4.700  | .0002  | .0000  |
| Stddev | 5.29   | .0006  | .0009  | .0011  | 5.940  | .0001  | .000   |
| %RSD   | 12.73  | 119.6  | 41.00  | 243.2  | 126.4  | 65.38  | 61.22  |

|    |        |        |       |        |       |       |        |
|----|--------|--------|-------|--------|-------|-------|--------|
| #1 | -37.81 | -.0010 | .0030 | .0003  | .5000 | .0001 | .0000  |
| #2 | -45.29 | -.0001 | .0016 | -.0012 | 8.900 | .0003 | -.0001 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 | Sn1899 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .0014  | .0003  | 64.85  | .8022  | -3.312 | 46.67  | .0019  |
| Stddev | .0001  | .0002  | 3.04   | .3568  | 18.17  | 19.55  | .0017  |
| %RSD   | 8.964  | 55.52  | 4.689  | 44.48  | 548.6  | 41.88  | 88.79  |

|    |       |       |       |       |        |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|
| #1 | .0015 | .0004 | 67.00 | .5499 | -16.16 | 60.50 | .0030 |
| #2 | .0013 | .0002 | 62.70 | 1.054 | 9.537  | 32.85 | .0007 |



Sample Name: BLK      Acquired: 5/11/2010 12:00:43      Type: Cal  
 Method: 2010a2007(v18)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .0008  | .0009  | 3.505  | 4.058  | .0864  | .0020  | -.0050 |
| Stddev | .0002  | .0008  | .799   | 1.717  | .0386  | .0000  | .0004  |
| %RSD   | 26.11  | 90.09  | 22.81  | 42.30  | 44.66  | .8068  | 7.351  |

|    |       |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|-------|--------|
| #1 | .0007 | .0014 | 2.939 | 5.272 | .0591 | .0020 | -.0053 |
| #2 | .0010 | .0003 | 4.070 | 2.844 | .1136 | .0020 | -.0047 |

| Elem   | Li6707 | Sr4077  |
|--------|--------|---------|
| Units  | Cts/S  | Cts/S   |
| Avg    | -7.100 | -.00507 |
| Stddev | 10.96  | .00286  |
| %RSD   | 154.4  | 56.474  |

|    |        |         |
|----|--------|---------|
| #1 | -14.85 | -.00709 |
| #2 | .6500  | -.00304 |

*checked  
5/11/10*

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2975.9 | 66160. | 3145.1   | 765.58 |
| Stddev    | 13.4   | 84.    | 10.2     | 1.63   |
| %RSD      | .45037 | .12709 | .32330   | .21309 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2985.4 | 66101. | 3152.3 | 766.73 |
| #2 | 2966.4 | 66220. | 3137.9 | 764.42 |

Sample Name: STD A      Acquired: 5/11/2010 12:03:52      Type: Cal  
 Method: 2010a2007(v18)      Mode: IR      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-34-A

| Elem   | Al1670 | Sb2068 | Be2348 | B_2496 | Cd2144 | Cd2265 | Cd2288 | Cr2677 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .5563  | 348.5  | 42052. | 3018.  | 16.14  | 3.633  | 5480.  | .1547  |
| Stddev | .0002  | 1.8    | 86.    | 16.    | .05    | .009   | 13.    | .0004  |
| %RSD   | .0385  | .5076  | .20345 | .5290  | .3213  | .2413  | .2410  | .2400  |

|    |       |       |        |       |       |       |       |       |
|----|-------|-------|--------|-------|-------|-------|-------|-------|
| #1 | .5561 | 349.7 | 42113. | 3030. | 16.10 | 3.627 | 5489. | .1544 |
| #2 | .5564 | 347.2 | 41992. | 3007. | 16.17 | 3.639 | 5471. | .1550 |

| Elem   | Co2307 | Cu2247 | Cu3273 | Pb2203 | Mn2576 | Mn2605 | Mo2020 | Ni2216 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.099  | 2.388  | 6465.  | 1.015  | .7715  | .0070  | .8869  | 1.308  |
| Stddev | .003   | .005   | 14.    | .010   | .0023  | .0001  | .0039  | .000   |
| %RSD   | .2505  | .2173  | .2237  | .9835  | .2965  | 1.550  | .4381  | .0310  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 1.097 | 2.385 | 6455. | 1.008 | .7698 | .0069 | .8841 | 1.308 |
| #2 | 1.101 | 2.392 | 6475. | 1.022 | .7731 | .0071 | .8896 | 1.308 |

| Elem   | Se1960 | Ag3280 | Sn1899 | V_2924 | Zn2062 | Zn2138 | Ti3361 | Tl1908 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 252.6  | 11580. | .6915  | .1652  | 4.523  | 8211.  | .6028  | .5689  |
| Stddev | 2.2    | 23.    | .0038  | .0004  | .023   | 6.     | .0010  | .0007  |
| %RSD   | .8690  | .1991  | .5447  | .2719  | .5114  | .0775  | .1616  | .1143  |

|    |       |        |       |       |       |       |       |       |
|----|-------|--------|-------|-------|-------|-------|-------|-------|
| #1 | 251.0 | 11560. | .6888 | .1649 | 4.506 | 8215. | .6021 | .5685 |
| #2 | 254.1 | 11590. | .6942 | .1655 | 4.539 | 8206. | .6035 | .5694 |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2973.6 | 65729. | 3127.2   | 769.88 |
| Stddev    | 8.9    | 197.   | 7.1      | 3.08   |
| %RSD      | .29991 | .30001 | .22809   | .40058 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2979.9 | 65868. | 3132.3 | 772.06 |
| #2 | 2967.3 | 65589. | 3122.2 | 767.70 |

Sample Name: STD B      Acquired: 5/11/2010 12:06:54      Type: Cal

Method: 2010a2007(v18)      Mode: IR      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B ICP7-37-A

| Elem   | Al3944 | As1890 | Ba4554 | Ca3158 | Fe2599 | Mg2790 | Mg2852 | K_7664 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 90660. | 973.6  | 256.3  | 3.942  | 2.777  | .5680  | 23800. | 11550. |
| Stddev | 850.   | .3     | .0     | .012   | .004   | .0012  | 5.     | 31.    |
| %RSD   | .9370  | .0284  | .0186  | .3067  | .1318  | .2181  | .0221  | .2678  |

|    |        |       |       |       |       |       |        |        |
|----|--------|-------|-------|-------|-------|-------|--------|--------|
| #1 | 90050. | 973.4 | 256.3 | 3.950 | 2.780 | .5689 | 23800. | 11570. |
| #2 | 91260. | 973.8 | 256.3 | 3.933 | 2.774 | .5671 | 23800. | 11520. |

| Elem   | Na5895 | P_2149 | Si2516 | Li6707 | Sr4077 |
|--------|--------|--------|--------|--------|--------|
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 33670. | 8278.  | 1794.  | 21550. | 44.884 |
| Stddev | 23.    | 16.    | 6.     | 67.    | .081   |
| %RSD   | .0668  | .1969  | .3122  | .3099  | .18134 |

|    |        |       |       |        |        |
|----|--------|-------|-------|--------|--------|
| #1 | 33660. | 8289. | 1790. | 21600. | 44.941 |
| #2 | 33690. | 8266. | 1798. | 21500. | 44.826 |

| Int. Std. | Y_2243 | Y_3600-2 | In2306 |
|-----------|--------|----------|--------|
| Units     | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2965.0 | 3154.9   | 750.22 |
| Stddev    | 14.0   | 2.5      | 1.73   |
| %RSD      | .47212 | .07990   | .23045 |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2974.9 | 3153.1 | 751.44 |
| #2 | 2955.1 | 3156.7 | 748.99 |

Sample Name: ICV1      Acquired: 5/11/2010 12:10:24      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-31-B

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 4.363  | 4.957  | 2.481  | 2.530  | 5.151  | .12920 | .0009  | 1.254  | 1.244  |
| Stddev | .019   | .018   | .005   | .004   | .017   | .00010 | .0001  | .013   | .008   |
| %RSD   | .4335  | .3656  | .2009  | .1752  | .3211  | .07818 | 15.07  | 1.044  | .6346  |

|    |       |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | 4.349 | 4.944 | 2.478 | 2.527 | 5.163 | .12913 | .0010 | 1.244 | 1.238 |
| #2 | 4.376 | 4.970 | 2.485 | 2.533 | 5.139 | .12927 | .0008 | 1.263 | 1.250 |

|         |      |          |          |          |          |          |      |          |          |
|---------|------|----------|----------|----------|----------|----------|------|----------|----------|
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value   |      |          |          |          |          |          |      |          |          |
| Range   |      |          |          |          |          |          |      |          |          |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.248  | 12.90  | .5117  | 1.253  | .6404  | .6404  | 2.615  | 2.518  | 12.65  |
| Stddev | .001   | .05    | .0009  | .009   | .0059  | .0005  | .027   | .031   | .10    |
| %RSD   | .0869  | .3533  | .1707  | .7374  | .9218  | .0828  | 1.045  | 1.217  | .7964  |

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 1.249 | 12.94 | .5123 | 1.246 | .6362 | .6400 | 2.634 | 2.496 | 12.73 |
| #2 | 1.247 | 12.87 | .5111 | 1.259 | .6445 | .6408 | 2.595 | 2.539 | 12.58 |

|         |          |          |          |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 12.77  | 1.272  | 1.269  | 2.058  | 1.249  | 12.83  | 2.480  | .6450  | 12.67  |
| Stddev | .00    | .000   | .012   | .010   | .006   | .03    | .002   | .0003  | .00    |
| %RSD   | .0214  | .0092  | .9639  | .5046  | .5103  | .2626  | .0805  | .0447  | .0127  |

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 12.77 | 1.272 | 1.278 | 2.050 | 1.244 | 12.81 | 2.478 | .6448 | 12.67 |
| #2 | 12.77 | 1.272 | 1.260 | 2.065 | 1.253 | 12.86 | 2.481 | .6452 | 12.67 |

|         |          |          |          |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |          |          |          |



Sample Name: ICV1      Acquired: 5/11/2010 12:10:24      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-31-B

| Elem    | Sn1899  | V_2924   | Zn2062   | Zn2138   | P_2149  | Si2516  | Ti3361   | Ti1908   | Li6707 |
|---------|---------|----------|----------|----------|---------|---------|----------|----------|--------|
| Units   | ppm     | ppm      | ppm      | ppm      | ppm     | ppm     | ppm      | ppm      | ppm    |
| Avg     | -0.0013 | 1.281    | 1.252    | 1.245    | -0.0099 | 0.0099  | 2.063    | 2.562    | 0.0018 |
| Stddev  | 0.0005  | 0.003    | 0.016    | 0.001    | 0.0037  | 0.0220  | 0.000    | 0.028    | 0.0018 |
| %RSD    | 40.70   | 0.1949   | 1.311    | 0.0855   | 37.00   | 221.6   | 0.0052   | 1.106    | 99.82  |
| #1      | -0.0017 | 1.280    | 1.241    | 1.246    | -0.0125 | 0.0255  | 2.063    | 2.542    | 0.0032 |
| #2      | -0.0009 | 1.283    | 1.264    | 1.244    | -0.0073 | -0.0056 | 2.063    | 2.582    | 0.0005 |
| Check ? | None    | Chk Pass | Chk Pass | Chk Pass | None    | None    | Chk Pass | Chk Pass | None   |
| Value   |         |          |          |          |         |         |          |          |        |
| Range   |         |          |          |          |         |         |          |          |        |

|        |         |
|--------|---------|
| Elem   | Sr4077  |
| Units  | ppm     |
| Avg    | 0.00088 |
| Stddev | 0.00001 |
| %RSD   | 1.4656  |
| #1     | 0.00089 |
| #2     | 0.00087 |

Check ?      None  
 Value  
 Range

| Int. Std. | Y_2243  | Y_3600  | Y_3600-2 | In2306 |
|-----------|---------|---------|----------|--------|
| Units     | Cts/S   | Cts/S   | Cts/S    | Cts/S  |
| Avg       | 2951.3  | 65036.  | 3106.6   | 756.33 |
| Stddev    | 13.2    | 82.     | 13.2     | 7.59   |
| %RSD      | 0.44578 | 0.12642 | 0.42432  | 1.0029 |
| #1        | 2960.6  | 64978.  | 3097.3   | 761.70 |
| #2        | 2942.0  | 65094.  | 3115.9   | 750.97 |

Sample Name: ICVB1      Acquired: 5/11/2010 12:13:32      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-32-B

| Elem        | Al1670   | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496   | Cd2144 | Cd2265 |
|-------------|----------|--------|--------|--------|--------|--------|----------|--------|--------|
| Units       | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    |
| Avg         | .9992    | .9858  | .0014  | -.0007 | .0004  | .00034 | 2.058    | .0000  | .0001  |
| Stddev      | .0005    | .0040  | .0033  | .0004  | .0002  | .00005 | .003     | .000   | .0001  |
| %RSD        | .0509    | .4085  | 231.8  | 53.61  | 50.20  | 15.042 | .1656    | 70.97  | 90.18  |
| #1          | .9989    | .9887  | .0038  | -.0010 | .0003  | .00031 | 2.055    | -.0001 | .0000  |
| #2          | .9996    | .9830  | -.0009 | -.0004 | .0006  | .00038 | 2.060    | .0000  | .0001  |
| Check ?     | Chk Pass | None   | None   | None   | None   | None   | Chk Pass | None   | None   |
| Value Range |          |        |        |        |        |        |          |        |        |

| Elem        | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units       | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg         | .0001  | 5.133  | -.0026 | -.0004 | -.0002 | -.0014 | 10.17  | .0008  | 5.097  |
| Stddev      | .0000  | .025   | .0004  | .0003  | .0004  | .0004  | .04    | .0007  | .016   |
| %RSD        | 40.81  | .4852  | 14.99  | 60.81  | 256.4  | 26.87  | .3523  | 92.64  | .3117  |
| #1          | .0001  | 5.150  | -.0023 | -.0002 | -.0005 | -.0017 | 10.15  | .0003  | 5.109  |
| #2          | .0001  | 5.115  | -.0029 | -.0006 | .0001  | -.0011 | 10.20  | .0013  | 5.086  |
| Check ?     | None   | None   | None   | None   | None   | None   | None   | None   | None   |
| Value Range |        |        |        |        |        |        |        |        |        |

| Elem        | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units       | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg         | 5.075  | 9.554  | 9.935  | .0028  | -.0031 | .0102  | -.0002 | -.0008 | .0137  |
| Stddev      | .054   | .016   | .057   | .0005  | .0001  | .0097  | .0001  | .0005  | .0051  |
| %RSD        | 1.065  | .1627  | .5746  | 16.70  | 2.911  | 95.09  | 23.84  | 60.07  | 37.01  |
| #1          | 5.114  | 9.565  | 9.975  | .0031  | -.0030 | .0170  | -.0003 | -.0011 | .0173  |
| #2          | 5.037  | 9.543  | 9.894  | .0024  | -.0031 | .0033  | -.0002 | -.0004 | .0102  |
| Check ?     | None   | None   | None   | None   | None   | None   | None   | None   | None   |
| Value Range |        |        |        |        |        |        |        |        |        |

Sample Name: ICVB1      Acquired: 5/11/2010 12:13:32      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-32-B

| Elem    | Sn1899   | V_2924  | Zn2062  | Zn2138  | P_2149   | Si2516   | Ti3361  | Ti1908 | Li6707   |
|---------|----------|---------|---------|---------|----------|----------|---------|--------|----------|
| Units   | ppm      | ppm     | ppm     | ppm     | ppm      | ppm      | ppm     | ppm    | ppm      |
| Avg     | 5.087    | -0.0052 | -0.0008 | -0.0004 | 4.920    | 5.119    | -0.0001 | .0038  | 2.039    |
| Stddev  | .020     | .0003   | .0003   | .0001   | .002     | .006     | .0002   | .0006  | .017     |
| %RSD    | .3835    | 5.972   | 33.16   | 13.36   | .0420    | .1086    | 107.8   | 15.85  | .8157    |
| #1      | 5.074    | -0.0054 | -0.0010 | -0.0004 | 4.922    | 5.115    | .0000   | .0042  | 2.051    |
| #2      | 5.101    | -0.0049 | -0.0006 | -0.0005 | 4.919    | 5.123    | -0.0002 | .0034  | 2.027    |
| Check ? | Chk Pass | None    | None    | None    | Chk Pass | Chk Pass | None    | None   | Chk Pass |
| Value   |          |         |         |         |          |          |         |        |          |
| Range   |          |         |         |         |          |          |         |        |          |

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | 2.0721 |
| Stddev | .0009  |
| %RSD   | .04448 |
| #1     | 2.0728 |
| #2     | 2.0715 |

| Check ? | Chk Pass |
|---------|----------|
| Value   |          |
| Range   |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2989.9 | 65867. | 3141.3   | 767.42 |
| Stddev    | 2.5    | 208.   | 23.1     | .06    |
| %RSD      | .08270 | .31563 | .73496   | .00720 |
| #1        | 2988.1 | 66014. | 3157.6   | 767.46 |
| #2        | 2991.6 | 65720. | 3124.9   | 767.38 |

Sample Name: ICB      Acquired: 5/11/2010 12:16:49      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .0000  | -.0040 | -.0023 | -.0001 | .0000  | -.00001 | .0042  | .0000  |
| Stddev | .0001  | .0051  | .0002  | .0001  | .0001  | .00002  | .0013  | .000   |
| %RSD   | 172.4  | 128.9  | 8.241  | 174.7  | 1209.  | 212.59  | 29.81  | 151.1  |

|    |       |        |        |        |        |         |       |        |
|----|-------|--------|--------|--------|--------|---------|-------|--------|
| #1 | .0001 | -.0076 | -.0024 | -.0002 | -.0001 | -.00003 | .0051 | -.0001 |
| #2 | .0000 | -.0004 | -.0022 | .0000  | .0001  | .00001  | .0033 | .0000  |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0000  | .0000  | -.0036 | -.0006 | -.0001 | .0000  | -.0004 | .0096  |
| Stddev | .0001  | .0001  | .0044  | .0009  | .0003  | .001   | .0002  | .0012  |
| %RSD   | 423.4  | 3010.  | 121.6  | 157.2  | 453.8  | 1975.  | 40.98  | 12.05  |

|    |        |        |        |        |        |        |        |       |
|----|--------|--------|--------|--------|--------|--------|--------|-------|
| #1 | -.0001 | .0001  | -.0068 | -.0013 | -.0003 | -.0005 | -.0006 | .0105 |
| #2 | .0001  | -.0001 | -.0005 | .0001  | .0001  | .0004  | -.0003 | .0088 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0005 | .0210  | .0003  | .0003  | -.0016 | .0005  | .0003  | -.0048 |
| Stddev | .0002  | .0182  | .0025  | .0001  | .0051  | .0001  | .0001  | .0280  |
| %RSD   | 38.55  | 86.72  | 990.5  | 45.50  | 308.0  | 18.97  | 30.12  | 590.0  |

|    |        |       |        |       |        |       |       |        |
|----|--------|-------|--------|-------|--------|-------|-------|--------|
| #1 | -.0004 | .0081 | .0020  | .0003 | .0019  | .0006 | .0002 | -.0246 |
| #2 | -.0006 | .0339 | -.0015 | .0002 | -.0052 | .0005 | .0004 | .0151  |

|            |          |      |          |          |          |          |          |          |
|------------|----------|------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |      |          |          |          |          |          |          |
| Low Limit  |          |      |          |          |          |          |          |          |



Sample Name: ICB      Acquired: 5/11/2010 12:16:49      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0001  | .0004  | .0058  | .0012  | -.0002 | -.0001 | -.0001 | .0021  |
| Stddev | .0016  | .0003  | .0128  | .0003  | .0007  | .0003  | .0000  | .0021  |
| %RSD   | 1808.  | 70.78  | 218.2  | 26.57  | 359.3  | 428.1  | 34.98  | 97.84  |
| #1     | -.0010 | .0006  | .0149  | .0010  | .0003  | .0001  | .0000  | .0036  |
| #2     | .0012  | .0002  | -.0032 | .0014  | -.0007 | -.0002 | -.0001 | .0006  |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

| Elem   | Si2516 | Ti3361 | Tl1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | -.0098 | -.0001 | -.0001 | .0009  | .00004  |
| Stddev | .0057  | .0001  | .0015  | .0002  | .00018  |
| %RSD   | 58.07  | 116.0  | 1325.  | 22.87  | 423.12  |
| #1     | -.0138 | .0000  | .0009  | .0007  | .00017  |
| #2     | -.0058 | -.0002 | -.0012 | .0010  | -.00009 |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2959.1 | 65204. | 3096.8   | 761.29 |
| Stddev    | 6.9    | 82.    | 6.0      | 3.74   |
| %RSD      | .23348 | .12624 | .19283   | .49173 |
| #1        | 2963.9 | 65146. | 3092.6   | 763.94 |
| #2        | 2954.2 | 65263. | 3101.1   | 758.65 |

Sample Name: CCVA1      Acquired: 5/11/2010 12:19:55      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2490  | .2349  | .2476  | .2510  | .2499  | .25096 | .2534  | .2484  |
| Stddev | .0011  | .0037  | .0005  | .0019  | .0011  | .00081 | .0021  | .0012  |
| %RSD   | .4282  | 1.573  | .1959  | .7542  | .4220  | .32122 | .8264  | .4890  |
| #1     | .2503  | .2351  | .2479  | .2514  | .2510  | .25118 | .2534  | .2489  |
| #2     | .2495  | .2378  | .2476  | .2495  | .2492  | .25181 | .2558  | .2493  |
| #3     | .2482  | .2369  | .2479  | .2536  | .2507  | .25096 | .2538  | .2486  |
| #4     | .2481  | .2296  | .2469  | .2497  | .2489  | .24988 | .2507  | .2466  |

|             |          |      |          |      |      |          |          |          |
|-------------|----------|------|----------|------|------|----------|----------|----------|
| Check ?     | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | Chk Pass |
| Value Range |          |      |          |      |      |          |          |          |

| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2475  | .2520  | .2500  | .2486  | .2460  | .2475  | .2505  | .2537  |
| Stddev | .0008  | .0006  | .0043  | .0003  | .0010  | .0013  | .0025  | .0047  |
| %RSD   | .3196  | .2248  | 1.715  | .1273  | .4213  | .5217  | 1.006  | 1.841  |
| #1     | .2480  | .2520  | .2506  | .2487  | .2470  | .2485  | .2509  | .2467  |
| #2     | .2484  | .2523  | .2441  | .2485  | .2466  | .2480  | .2522  | .2555  |
| #3     | .2472  | .2524  | .2544  | .2482  | .2456  | .2478  | .2520  | .2566  |
| #4     | .2466  | .2512  | .2509  | .2489  | .2447  | .2456  | .2468  | .2558  |

|             |          |          |      |          |          |          |          |      |
|-------------|----------|----------|------|----------|----------|----------|----------|------|
| Check ?     | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None |
| Value Range |          |          |      |          |          |          |          |      |

Sample Name: CCVA1      Acquired: 5/11/2010 12:19:55      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2463  | .2603  | .2535  | .2466  | .2457  | .2480  | .2477  | 2.556  |
| Stddev | .0011  | .0175  | .0031  | .0006  | .0032  | .0004  | .0009  | .024   |
| %RSD   | .4323  | 6.736  | 1.224  | .2346  | 1.301  | .1698  | .3545  | .9286  |
| #1     | .2475  | .2546  | .2554  | .2461  | .2417  | .2486  | .2481  | 2.563  |
| #2     | .2469  | .2567  | .2554  | .2474  | .2466  | .2481  | .2486  | 2.572  |
| #3     | .2455  | .2853  | .2542  | .2462  | .2452  | .2480  | .2472  | 2.520  |
| #4     | .2453  | .2444  | .2489  | .2466  | .2494  | .2475  | .2467  | 2.567  |

Check ?      Chk Pass      None      None      Chk Pass      Chk Pass      Chk Pass      Chk Pass      None  
 Value  
 Range

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2521  | .2506  | .2389  | .2483  | .2476  | .2456  | .2524  | -.0007 |
| Stddev | .0006  | .0010  | .0077  | .0008  | .0007  | .0009  | .0007  | .0012  |
| %RSD   | .2260  | .4059  | 3.226  | .3137  | .2762  | .3628  | .2926  | 173.4  |
| #1     | .2516  | .2501  | .2333  | .2477  | .2470  | .2464  | .2524  | .0003  |
| #2     | .2527  | .2520  | .2345  | .2488  | .2486  | .2454  | .2527  | -.0010 |
| #3     | .2524  | .2508  | .2377  | .2492  | .2473  | .2460  | .2531  | .0002  |
| #4     | .2516  | .2496  | .2501  | .2476  | .2477  | .2444  | .2513  | -.0022 |

Check ?      Chk Pass      Chk Pass      None      Chk Pass      Chk Pass      Chk Pass      Chk Pass      None  
 Value  
 Range

Sample Name: CCVA1      Acquired: 5/11/2010 12:19:55      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Si2516 | Ti3361 | Ti1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .1525  | .2487  | .2465  | .0025  | -.00008 |
| Stddev | .0203  | .0004  | .0008  | .0009  | .00003  |
| %RSD   | 13.34  | .1488  | .3260  | 36.37  | 42.369  |

|    |       |       |       |       |         |
|----|-------|-------|-------|-------|---------|
| #1 | .1457 | .2493 | .2468 | .0031 | -.00007 |
| #2 | .1499 | .2485 | .2454 | .0023 | -.00011 |
| #3 | .1811 | .2484 | .2473 | .0034 | -.00003 |
| #4 | .1333 | .2487 | .2467 | .0013 | -.00009 |

|         |      |          |          |      |      |
|---------|------|----------|----------|------|------|
| Check ? | None | Chk Pass | Chk Pass | None | None |
| Value   |      |          |          |      |      |
| Range   |      |          |          |      |      |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 3019.6 | 66580. | 3144.9   | 783.15 |
| Stddev    | 7.5    | 268.   | 9.8      | 2.28   |
| %RSD      | .24879 | .40223 | .31251   | .29071 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 3011.6 | 66638. | 3155.4 | 781.56 |
| #2 | 3014.8 | 66755. | 3135.3 | 782.12 |
| #3 | 3025.2 | 66740. | 3137.9 | 782.39 |
| #4 | 3026.8 | 66185. | 3151.2 | 786.52 |



Sample Name: CCVB1      Acquired: 5/11/2010 12:24:43      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 7.315  | 9.692  | -.0047 | 1.004  | 9.939  | .00004 | .0041  | .0000  | .0000  |
| Stddev | .022   | .050   | .0021  | .001   | .116   | .00005 | .0012  | .0000  | .0001  |
| %RSD   | .3058  | .5178  | 44.57  | .1182  | 1.164  | 106.14 | 28.72  | 117.8  | 157.3  |

|    |       |       |        |       |       |         |       |       |       |
|----|-------|-------|--------|-------|-------|---------|-------|-------|-------|
| #1 | 7.331 | 9.632 | -.0048 | 1.004 | 9.943 | .00008  | .0041 | .0000 | .0001 |
| #2 | 7.332 | 9.751 | -.0063 | 1.004 | 9.780 | .00007  | .0024 | .0000 | .0001 |
| #3 | 7.312 | 9.679 | -.0059 | 1.002 | 9.980 | -.00002 | .0049 | .0000 | .0000 |
| #4 | 7.284 | 9.708 | -.0017 | 1.005 | 10.05 | .00004  | .0049 | .0001 | .0000 |

|         |      |          |      |          |          |      |      |      |      |
|---------|------|----------|------|----------|----------|------|------|------|------|
| Check ? | None | Chk Pass | None | Chk Pass | Chk Pass | None | None | None | None |
| Value   |      |          |      |          |          |      |      |      |      |
| Range   |      |          |      |          |          |      |      |      |      |

| Elem   | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0048  | 10.14  | .0004  | -.0001 | -.0004 | -.0003 | 10.19  | .0000  | 10.05  |
| Stddev | .0001  | .04    | .0004  | .0001  | .0004  | .0011  | .04    | .000   | .05    |
| %RSD   | 1.259  | .3959  | 107.4  | 102.5  | 88.57  | 341.0  | .4373  | 1164.  | .4903  |

|    |       |       |        |        |        |        |       |        |       |
|----|-------|-------|--------|--------|--------|--------|-------|--------|-------|
| #1 | .0049 | 10.14 | .0002  | -.0001 | -.0007 | .0009  | 10.14 | .0000  | 10.05 |
| #2 | .0048 | 10.10 | .0008  | .0000  | .0000  | -.0017 | 10.16 | .0003  | 9.984 |
| #3 | .0049 | 10.13 | .0007  | .0000  | -.0002 | .0000  | 10.20 | -.0002 | 10.08 |
| #4 | .0048 | 10.19 | -.0001 | -.0001 | -.0008 | -.0005 | 10.24 | -.0002 | 10.09 |

|         |      |          |      |      |      |      |          |      |          |
|---------|------|----------|------|------|------|------|----------|------|----------|
| Check ? | None | Chk Pass | None | None | None | None | Chk Pass | None | Chk Pass |
| Value   |      |          |      |      |      |      |          |      |          |
| Range   |      |          |      |      |      |      |          |      |          |

Sample Name: CCVB1      Acquired: 5/11/2010 12:24:43      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.06  | .0003  | .0014  | .0001  | -.0055 | 10.04  | -.0001 | .0004  | 10.06  |
| Stddev | .06    | .0001  | .0020  | .0002  | .0001  | .08    | .0030  | .0004  | .06    |
| %RSD   | .5699  | 16.39  | 147.7  | 144.8  | 1.968  | .7666  | 3727.  | 91.54  | .6364  |

|    |       |       |        |        |        |       |        |       |       |
|----|-------|-------|--------|--------|--------|-------|--------|-------|-------|
| #1 | 10.03 | .0003 | -.0008 | .0002  | -.0055 | 10.05 | .0008  | .0009 | 10.05 |
| #2 | 10.14 | .0004 | .0010  | .0003  | -.0056 | 10.11 | -.0016 | .0000 | 10.15 |
| #3 | 10.01 | .0004 | .0041  | .0001  | -.0053 | 9.933 | .0037  | .0003 | 10.03 |
| #4 | 10.08 | .0004 | .0013  | -.0001 | -.0054 | 10.08 | -.0031 | .0005 | 10.00 |

|         |          |      |      |      |      |          |      |      |          |
|---------|----------|------|------|------|------|----------|------|------|----------|
| Check ? | Chk Pass | None | None | None | None | Chk Pass | None | None | Chk Pass |
| Value   |          |      |      |      |      |          |      |      |          |
| Range   |          |      |      |      |      |          |      |      |          |

| Elem   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0000  | -.0005 | .0002  | .0003  | 10.04  | 9.995  | .0003  | .0006  | 1.000  |
| Stddev | .001   | .0002  | .0001  | .0001  | .02    | .053   | .0002  | .0008  | .005   |
| %RSD   | 2762.  | 39.67  | 46.52  | 22.31  | .2150  | .5341  | 53.66  | 145.9  | .5116  |

|    |        |        |       |       |       |       |       |        |       |
|----|--------|--------|-------|-------|-------|-------|-------|--------|-------|
| #1 | .0008  | -.0006 | .0003 | .0004 | 10.07 | 9.964 | .0003 | .0014  | .9986 |
| #2 | -.0006 | -.0006 | .0001 | .0002 | 10.03 | 10.06 | .0005 | -.0005 | 1.008 |
| #3 | -.0005 | -.0004 | .0003 | .0004 | 10.03 | 9.941 | .0001 | .0003  | .9969 |
| #4 | .0001  | -.0002 | .0002 | .0004 | 10.04 | 10.02 | .0003 | .0010  | .9982 |

|         |      |      |      |      |          |          |      |      |          |
|---------|------|------|------|------|----------|----------|------|------|----------|
| Check ? | None | None | None | None | Chk Pass | Chk Pass | None | None | Chk Pass |
| Value   |      |      |      |      |          |          |      |      |          |
| Range   |      |      |      |      |          |          |      |      |          |

Sample Name: CCVB1      Acquired: 5/11/2010 12:24:43      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

Elem            Sr4077  
 Units            ppm  
 Avg             1.0105  
 Stddev          .0041  
 %RSD           .40263

#1              1.0092  
 #2              1.0068  
 #3              1.0098  
 #4              1.0163

Check ?      Chk Pass  
 Value  
 Range

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2994.7 | 65243. | 3115.7   | 762.88 |
| Stddev    | 6.2    | 235.   | 25.2     | 1.38   |
| %RSD      | .20675 | .36035 | .80871   | .18152 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2989.6 | 65066. | 3121.9 | 762.39 |
| #2 | 2990.8 | 65425. | 3148.3 | 762.09 |
| #3 | 2995.3 | 65016. | 3101.2 | 762.10 |
| #4 | 3003.3 | 65466. | 3091.3 | 764.95 |

Sample Name: CCB1      Acquired: 5/11/2010 12:32:48      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0001 | -.0003 | -.0049 | -.0010 | -.0003 | .00003 | .0002  | .0000  |
| Stddev | .0002  | .0009  | .0028  | .0001  | .0001  | .00002 | .0015  | .000   |
| %RSD   | 288.7  | 276.3  | 57.14  | 6.314  | 39.31  | 53.804 | 661.2  | 967.7  |
| #1     | .0001  | -.0009 | -.0068 | -.0010 | -.0004 | .00002 | .0013  | -.0001 |
| #2     | -.0003 | .0003  | -.0029 | -.0009 | -.0002 | .00004 | -.0008 | .0000  |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0001  | -.0001 | -.0021 | .0000  | -.0004 | -.0003 | .0004  | .0072  |
| Stddev | .0001  | .0001  | .0078  | .0004  | .0003  | .0002  | .0008  | .0060  |
| %RSD   | 97.70  | 172.0  | 375.8  | 1285.  | 72.84  | 96.89  | 188.0  | 84.21  |
| #1     | .0002  | .0000  | .0035  | -.0002 | -.0002 | -.0001 | .0010  | .0114  |
| #2     | .0000  | -.0001 | -.0076 | .0003  | -.0006 | -.0004 | -.0001 | .0029  |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0004 | .0142  | .0000  | .0000  | .0015  | -.0005 | .0002  | .0388  |
| Stddev | .0005  | .0129  | .0023  | .0000  | .0006  | .0001  | .0003  | .0143  |
| %RSD   | 139.3  | 91.00  | 10890. | 235.0  | 41.54  | 17.87  | 160.4  | 36.87  |
| #1     | -.0007 | .0233  | -.0016 | .0000  | .0010  | -.0005 | .0004  | .0287  |
| #2     | .0000  | .0051  | .0016  | .0001  | .0019  | -.0006 | .0000  | .0489  |

Check ?      Chk Pass      None    Chk Pass    Chk Pass      None    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit



Sample Name: CCB1      Acquired: 5/11/2010 12:32:48      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0002  | .0001  | -.0062 | .0000  | -.0006 | -.0001 | -.0001 | -.0012 |
| Stddev | .0001  | .0001  | .0097  | .000   | .0005  | .0001  | .0000  | .0036  |
| %RSD   | 63.22  | 104.9  | 156.2  | 672.2  | 88.54  | 80.10  | 59.45  | 297.2  |
| #1     | .0003  | .0002  | .0006  | -.0001 | -.0010 | -.0001 | -.0001 | -.0038 |
| #2     | .0001  | .0000  | -.0130 | .0001  | -.0002 | -.0002 | .0000  | .0013  |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

| Elem   | Si2516 | Ti3361 | Tl1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .0089  | -.0002 | -.0003 | .0013  | -.00009 |
| Stddev | .0126  | .0000  | .0007  | .0007  | .00013  |
| %RSD   | 142.1  | 18.49  | 244.0  | 52.56  | 145.54  |
| #1     | .0178  | -.0002 | -.0008 | .0018  | .00000  |
| #2     | .0000  | -.0002 | .0002  | .0008  | -.00018 |

Check ?      Chk Pass    Chk Pass    Chk Pass    Chk Pass    Chk Pass  
 High Limit  
 Low Limit

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2959.0 | 65510. | 3082.3   | 766.16 |
| Stddev    | 19.5   | 266.   | 3.0      | .19    |
| %RSD      | .65846 | .40561 | .09888   | .02525 |
| #1        | 2972.8 | 65698. | 3084.4   | 766.30 |
| #2        | 2945.2 | 65322. | 3080.1   | 766.03 |

Sample Name: CRI      Acquired: 5/11/2010 12:35:23      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-32-A

| Elem    | Al1670 | Al3944   | Sb2068   | As1890   | Ba4554   | Be2348   | B_2496   | Cd2144   | Cd2265   |
|---------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| Units   | ppm    | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg     | .0566  | .0485    | .0497    | .1038    | .0050    | .00505   | .0520    | .0052    | .0053    |
| Stddev  | .0006  | .0032    | .0015    | .0024    | .0003    | .00013   | .0022    | .0000    | .0001    |
| %RSD    | 1.035  | 6.619    | 3.060    | 2.350    | 6.010    | 2.5917   | 4.231    | .8142    | 2.159    |
| #1      | .0561  | .0507    | .0508    | .1056    | .0052    | .00495   | .0505    | .0052    | .0052    |
| #2      | .0570  | .0462    | .0486    | .1021    | .0048    | .00514   | .0536    | .0053    | .0053    |
| Check ? | None   | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |        |          |          |          |          |          |          |          |          |
| Range   |        |          |          |          |          |          |          |          |          |

| Elem    | Cd2288   | Ca3158   | Cr2677   | Co2307   | Cu2247   | Cu3273   | Fe2599   | Pb2203   | Mg2790 |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Units   | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm    |
| Avg     | .0058    | .0514    | .0050    | .0103    | .0100    | .0102    | .0229    | .0498    | .0516  |
| Stddev  | .0001    | .0091    | .0004    | .0001    | .0003    | .0002    | .0039    | .0012    | .0336  |
| %RSD    | 1.244    | 17.78    | 7.007    | 1.095    | 2.641    | 2.137    | 17.10    | 2.319    | 65.11  |
| #1      | .0057    | .0578    | .0053    | .0102    | .0098    | .0101    | .0202    | .0490    | .0754  |
| #2      | .0058    | .0449    | .0048    | .0104    | .0102    | .0104    | .0257    | .0506    | .0279  |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None   |
| Value   |          |          |          |          |          |          |          |          |        |
| Range   |          |          |          |          |          |          |          |          |        |

| Elem    | Mg2852   | Mn2576   | Mn2605 | Mo2020   | Ni2216   | K_7664   | Se1960   | Ag3280   | Na5895   |
|---------|----------|----------|--------|----------|----------|----------|----------|----------|----------|
| Units   | ppm      | ppm      | ppm    | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg     | .0214    | .0052    | .0058  | .0095    | .0202    | .4511    | .1022    | .0109    | .2159    |
| Stddev  | .0047    | .0001    | .0023  | .0002    | .0001    | .0548    | .0007    | .0004    | .0075    |
| %RSD    | 21.95    | 1.436    | 39.95  | 1.819    | .6414    | 12.15    | .6450    | 3.479    | 3.477    |
| #1      | .0247    | .0051    | .0074  | .0094    | .0201    | .4123    | .1017    | .0107    | .2106    |
| #2      | .0181    | .0052    | .0042  | .0096    | .0203    | .4899    | .1027    | .0112    | .2212    |
| Check ? | Chk Pass | Chk Pass | None   | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |        |          |          |          |          |          |          |
| Range   |          |          |        |          |          |          |          |          |          |

Sample Name: CRI      Acquired: 5/11/2010 12:35:23      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B ICP7-32-A

| Elem   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0528  | .0100  | .0103  | .0104  | .1935  | .3932  | .0100  | .1990  | .0113  |
| Stddev | .0001  | .0003  | .0002  | .0000  | .0022  | .0220  | .0001  | .0011  | .0009  |
| %RSD   | .1444  | 2.948  | 2.138  | .0828  | 1.139  | 5.606  | .7919  | .5308  | 7.899  |
| #1     | .0528  | .0098  | .0101  | .0104  | .1919  | .4088  | .0099  | .1983  | .0106  |
| #2     | .0529  | .0102  | .0104  | .0104  | .1950  | .3776  | .0100  | .1998  | .0119  |

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | .01030 |
| Stddev | .00017 |
| %RSD   | 1.6826 |
| #1     | .01017 |
| #2     | .01042 |

Check ?    Chk Pass  
 Value  
 Range

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2991.5 | 65611. | 3098.6   | 775.31 |
| Stddev    | 15.7   | 485.   | 16.8     | 2.48   |
| %RSD      | .52327 | .73960 | .54107   | .31970 |
| #1        | 3002.6 | 65268. | 3086.7   | 777.06 |
| #2        | 2980.4 | 65954. | 3110.5   | 773.56 |

Sample Name: CRI      Acquired: 5/11/2010 12:38:29      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0024  | .0008  | .0069  | .0091  | .0018  | .00018 | .0115  | .0005  | .0005  |
| Stddev | .0000  | .0042  | .0008  | .0005  | .0002  | .00007 | .0012  | .0000  | .0000  |
| %RSD   | .3079  | 516.7  | 11.61  | 5.687  | 10.12  | 37.208 | 10.45  | 4.203  | 7.727  |
| #1     | .0024  | .0038  | .0063  | .0094  | .0019  | .00013 | .0106  | .0005  | .0006  |
| #2     | .0024  | -.0022 | .0075  | .0087  | .0017  | .00023 | .0123  | .0005  | .0005  |

Check ?      Chk Pass      None      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass  
 Value  
 Range

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0005  | .0069  | .0019  | .0006  | .0016  | .0023  | .0071  | .0100  | .0404  |
| Stddev | .0001  | .0013  | .0000  | .0002  | .0002  | .0013  | .0035  | .0007  | .0046  |
| %RSD   | 16.85  | 19.24  | 2.587  | 25.92  | 14.15  | 58.94  | 49.07  | 6.730  | 11.32  |
| #1     | .0006  | .0078  | .0019  | .0007  | .0015  | .0032  | .0096  | .0095  | .0437  |
| #2     | .0005  | .0059  | .0018  | .0005  | .0018  | .0013  | .0046  | .0105  | .0372  |

Check ?      Chk Pass      None      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      None  
 Value  
 Range

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0009 | .0006  | -.0034 | .0018  | .0025  | .0556  | .0184  | .0022  | .1840  |
| Stddev | .0010  | .0000  | .0029  | .0001  | .0001  | .0344  | .0004  | .0004  | .0011  |
| %RSD   | 115.2  | 5.646  | 84.07  | 2.976  | 2.925  | 61.91  | 2.282  | 19.30  | .6114  |
| #1     | -.0016 | .0006  | -.0014 | .0017  | .0025  | .0800  | .0186  | .0019  | .1848  |
| #2     | -.0002 | .0006  | -.0054 | .0018  | .0024  | .0313  | .0181  | .0025  | .1832  |

Check ?      None      Chk Pass      None      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass      Chk Pass  
 Value  
 Range

Sample Name: CRI      Acquired: 5/11/2010 12:38:29      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0087  | .0017  | .0018  | .0019  | .0202  | .0621  | .0009  | .0097  | .0087  |
| Stddev | .0002  | .0002  | .0000  | .0000  | .0006  | .0127  | .0001  | .0004  | .0006  |
| %RSD   | 2.588  | 12.41  | 1.385  | .7839  | 2.802  | 20.49  | 17.35  | 4.573  | 7.304  |
| #1     | .0088  | .0016  | .0017  | .0019  | .0198  | .0711  | .0007  | .0094  | .0092  |
| #2     | .0085  | .0019  | .0018  | .0020  | .0206  | .0531  | .0010  | .0100  | .0083  |

Check ?    Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass   Chk Pass  
 Value  
 Range

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | .00018 |
| Stddev | .00010 |
| %RSD   | 57.008 |
| #1     | .00011 |
| #2     | .00025 |

Check ?    Chk Pass  
 Value  
 Range

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2976.7 | 65974. | 3118.6   | 770.56 |
| Stddev    | 3.1    | 145.   | 20.9     | 1.17   |
| %RSD      | .10382 | .21991 | .67058   | .15240 |
| #1        | 2978.9 | 65871. | 3133.4   | 771.39 |
| #2        | 2974.5 | 66076. | 3103.8   | 769.73 |



Sample Name: ICSA      Acquired: 5/11/2010 12:40:59      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | 19.58  | 488.0  | .0004  | .0023  | .0003  | -.00010 | .0159  | .0010  |
| Stddev | .09    | 2.1    | .0009  | .0019  | .0001  | .00002  | .0013  | .0002  |
| %RSD   | .4525  | .4249  | 263.0  | 83.66  | 26.09  | 18.569  | 7.980  | 20.02  |

|    |       |       |        |       |       |         |       |       |
|----|-------|-------|--------|-------|-------|---------|-------|-------|
| #1 | 19.51 | 486.6 | .0010  | .0009 | .0004 | -.00009 | .0168 | .0009 |
| #2 | 19.64 | 489.5 | -.0003 | .0036 | .0003 | -.00011 | .0150 | .0011 |

|             |      |          |      |      |      |      |      |      |
|-------------|------|----------|------|------|------|------|------|------|
| Check ?     | None | Chk Pass | None | None | None | None | None | None |
| Value Range |      |          |      |      |      |      |      |      |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0027  | -.0002 | 476.6  | .0036  | -.0006 | .0025  | .0021  | 183.6  |
| Stddev | .0001  | .0003  | .2     | .0002  | .0000  | .0026  | .0001  | .5     |
| %RSD   | 2.012  | 166.4  | .0399  | 6.059  | 7.225  | 106.6  | 3.544  | .2528  |

|    |       |        |       |       |        |       |       |       |
|----|-------|--------|-------|-------|--------|-------|-------|-------|
| #1 | .0027 | -.0004 | 476.4 | .0038 | -.0006 | .0006 | .0021 | 184.0 |
| #2 | .0028 | .0000  | 476.7 | .0035 | -.0007 | .0043 | .0020 | 183.3 |

|             |      |      |          |      |      |      |      |          |
|-------------|------|------|----------|------|------|------|------|----------|
| Check ?     | None | None | Chk Pass | None | None | None | None | Chk Pass |
| Value Range |      |      |          |      |      |      |      |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0018  | 487.3  | 426.9  | .0174  | .0206  | -.0001 | .0025  | -.0693 |
| Stddev | .0011  | 1.4    | 2.5    | .0001  | .0011  | .0001  | .0005  | .0458  |
| %RSD   | 60.28  | .2961  | .5815  | .3637  | 5.204  | 110.6  | 20.24  | 66.04  |

|    |       |       |       |       |       |        |       |        |
|----|-------|-------|-------|-------|-------|--------|-------|--------|
| #1 | .0010 | 488.3 | 425.1 | .0175 | .0213 | .0000  | .0022 | -.0369 |
| #2 | .0025 | 486.3 | 428.6 | .0174 | .0198 | -.0002 | .0029 | -.1016 |

|             |      |          |      |      |      |      |      |      |
|-------------|------|----------|------|------|------|------|------|------|
| Check ?     | None | Chk Pass | None | None | None | None | None | None |
| Value Range |      |          |      |      |      |      |      |      |

Sample Name: ICSA      Acquired: 5/11/2010 12:40:59      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem        | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units       | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg         | .0120  | .0034  | .0313  | .0025  | .0012  | -.0001 | .0012  | .0193  |
| Stddev      | .0016  | .0003  | .0017  | .0002  | .0006  | .0002  | .0001  | .0066  |
| %RSD        | 13.56  | 8.110  | 5.571  | 8.943  | 52.36  | 121.1  | 6.730  | 34.29  |
| #1          | .0131  | .0032  | .0301  | .0023  | .0007  | -.0003 | .0012  | .0146  |
| #2          | .0108  | .0036  | .0326  | .0027  | .0016  | .0000  | .0013  | .0240  |
| Check ?     | None   | None   | None   | None   | None   | None   | None   | None   |
| Value Range |        |        |        |        |        |        |        |        |

| Elem        | Si2516 | Ti3361 | Tl1908 | Li6707 | Sr4077 |
|-------------|--------|--------|--------|--------|--------|
| Units       | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg         | .0104  | .0047  | -.0058 | .0003  | .00565 |
| Stddev      | .0205  | .0000  | .0042  | .0040  | .00011 |
| %RSD        | 196.9  | .0574  | 72.78  | 1258.  | 1.8842 |
| #1          | -.0041 | .0047  | -.0087 | -.0025 | .00557 |
| #2          | .0249  | .0047  | -.0028 | .0032  | .00573 |
| Check ?     | None   | None   | None   | None   | None   |
| Value Range |        |        |        |        |        |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2722.8 | 59586. | 3049.3   | 664.33 |
| Stddev    | 15.8   | 70.    | 8.7      | 4.03   |
| %RSD      | .57922 | .11748 | .28406   | .60720 |
| #1        | 2733.9 | 59635. | 3055.4   | 667.18 |
| #2        | 2711.6 | 59536. | 3043.1   | 661.48 |

Sample Name: ICSAB      Acquired: 5/11/2010 12:45:08      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 19.86  | 484.5  | .9499  | .0003  | .5065  | .47658 | .0129  | .9498  | .9030  |
| Stddev | .08    | 3.9    | .0098  | .0066  | .0020  | .00253 | .0006  | .0046  | .0072  |
| %RSD   | .3866  | .8046  | 1.026  | 2032.  | .3947  | .53080 | 4.304  | .4860  | .7961  |

|    |       |       |       |        |       |        |       |       |       |
|----|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| #1 | 19.81 | 481.7 | .9431 | .0050  | .5051 | .47479 | .0133 | .9466 | .8979 |
| #2 | 19.91 | 487.2 | .9568 | -.0043 | .5079 | .47837 | .0125 | .9531 | .9081 |

|             |      |          |          |      |          |          |      |          |          |
|-------------|------|----------|----------|------|----------|----------|------|----------|----------|
| Check ?     | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass |
| Value Range |      |          |          |      |          |          |      |          |          |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .9056  | 481.0  | .4934  | .4529  | .4678  | .4851  | 185.9  | .9608  | 491.6  |
| Stddev | .0047  | 2.5    | .0014  | .0041  | .0017  | .0060  | 1.1    | .0039  | 1.9    |
| %RSD   | .5162  | .5262  | .2805  | .9104  | .3606  | 1.233  | .5948  | .4024  | .3943  |

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .9023 | 479.2 | .4925 | .4499 | .4666 | .4808 | 185.1 | .9581 | 490.2 |
| #2 | .9089 | 482.8 | .4944 | .4558 | .4690 | .4893 | 186.7 | .9635 | 493.0 |

|             |          |          |          |          |          |          |          |          |          |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?     | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value Range |          |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 424.1  | .4988  | .5203  | -.0006 | .8941  | -.0619 | .0118  | .9835  | .0286  |
| Stddev | 6.3    | .0023  | .0027  | .0004  | .0079  | .0213  | .0037  | .0073  | .0078  |
| %RSD   | 1.490  | .4668  | .5154  | 61.46  | .8783  | 34.50  | 31.63  | .7438  | 27.46  |

|    |       |       |       |        |       |        |       |       |       |
|----|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| #1 | 428.6 | .4972 | .5222 | -.0008 | .8886 | -.0770 | .0092 | .9784 | .0341 |
| #2 | 419.7 | .5005 | .5185 | -.0003 | .8997 | -.0468 | .0145 | .9887 | .0230 |

|             |      |          |          |      |          |      |      |          |      |
|-------------|------|----------|----------|------|----------|------|------|----------|------|
| Check ?     | None | Chk Pass | Chk Pass | None | Chk Pass | None | None | Chk Pass | None |
| Value Range |      |          |          |      |          |      |      |          |      |

Sample Name: ICSAB      Acquired: 5/11/2010 12:45:08      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem    | Sn1899 | V_2924   | Zn2062   | Zn2138   | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|---------|--------|----------|----------|----------|--------|--------|--------|--------|--------|
| Units   | ppm    | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg     | .0015  | .5077    | .9183    | .8824    | .0028  | .0061  | .0049  | -.0088 | .0005  |
| Stddev  | .0007  | .0013    | .0022    | .0040    | .0026  | .0266  | .0000  | .0006  | .0020  |
| %RSD    | 45.27  | .2576    | .2350    | .4501    | 94.81  | 434.9  | .3911  | 6.643  | 404.8  |
| #1      | .0019  | .5067    | .9168    | .8796    | .0009  | -.0127 | .0049  | -.0092 | -.0009 |
| #2      | .0010  | .5086    | .9198    | .8852    | .0046  | .0249  | .0049  | -.0083 | .0019  |
| Check ? | None   | Chk Pass | Chk Pass | Chk Pass | None   | None   | None   | None   | None   |
| Value   |        |          |          |          |        |        |        |        |        |
| Range   |        |          |          |          |        |        |        |        |        |

|        |        |
|--------|--------|
| Elem   | Sr4077 |
| Units  | ppm    |
| Avg    | .00587 |
| Stddev | .00019 |
| %RSD   | 3.3036 |
| #1     | .00601 |
| #2     | .00574 |

Check ?      None  
 Value  
 Range

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2683.0 | 58562. | 3019.0   | 661.03 |
| Stddev    | 10.0   | 217.   | .4       | .11    |
| %RSD      | .37395 | .37032 | .01407   | .01703 |
| #1        | 2690.1 | 58409. | 3018.7   | 661.11 |
| #2        | 2675.9 | 58716. | 3019.3   | 660.95 |

Sample Name: RB      Acquired: 5/11/2010 12:48:32      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0130  | .0165  | -.0025 | -.0010 | .0000  | -.00004 | -.0001 | .0001  |

|    |       |       |        |        |       |         |        |       |
|----|-------|-------|--------|--------|-------|---------|--------|-------|
| #1 | .0137 | .0191 | -.0032 | -.0019 | .0000 | -.00004 | .0007  | .0000 |
| #2 | .0123 | .0138 | -.0018 | -.0002 | .0000 | -.00005 | -.0009 | .0001 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | .0001  | .0226  | -.0002 | -.0002 | -.0002 | -.0008 | .0183  |

|    |       |       |       |        |        |        |        |       |
|----|-------|-------|-------|--------|--------|--------|--------|-------|
| #1 | .0001 | .0001 | .0238 | -.0001 | -.0004 | -.0003 | -.0004 | .0225 |
| #2 | .0001 | .0001 | .0215 | -.0004 | -.0001 | -.0001 | -.0012 | .0141 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | -.0006 | .0275  | .0000  | -.0004 | .0002  | -.0293 | -.0041 | .0004  |

|    |        |       |       |        |       |        |        |       |
|----|--------|-------|-------|--------|-------|--------|--------|-------|
| #1 | -.0008 | .0272 | .0000 | -.0004 | .0002 | -.0164 | -.0035 | .0007 |
| #2 | -.0004 | .0278 | .0000 | -.0005 | .0003 | -.0423 | -.0047 | .0001 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | -.0361 | -.0002 | -.0004 | .0001  | .0001  | .0032  | -.0131 | -.0001 |

|    |        |        |        |        |       |        |        |        |
|----|--------|--------|--------|--------|-------|--------|--------|--------|
| #1 | -.0356 | -.0006 | -.0008 | -.0001 | .0001 | .0069  | -.0039 | -.0002 |
| #2 | -.0365 | .0003  | -.0001 | .0002  | .0001 | -.0005 | -.0223 | -.0001 |

|       |        |        |         |
|-------|--------|--------|---------|
| Elem  | Tl1908 | Li6707 | Sr4077  |
| Units | ppm    | ppm    | ppm     |
| Avg   | -.0001 | -.0008 | -.00007 |

|    |        |        |         |
|----|--------|--------|---------|
| #1 | -.0001 | -.0022 | -.00004 |
| #2 | -.0001 | .0007  | -.00010 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2978.1 | 65926. | 3083.8   | 772.19 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2982.5 | 66019. | 3097.2 | 775.87 |
| #2 | 2973.7 | 65834. | 3070.4 | 768.50 |



Sample Name: CCVA2      Acquired: 5/11/2010 12:56:35      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2486  | .2372  | .2492  | .2513  | .2501  | .25099 | .2513  | .2477  |
| Stddev | .0005  | .0017  | .0017  | .0002  | .0006  | .00013 | .0012  | .0005  |
| %RSD   | .2114  | .7277  | .6786  | .0980  | .2455  | .05075 | .4606  | .1899  |

|    |       |       |       |       |       |        |       |       |
|----|-------|-------|-------|-------|-------|--------|-------|-------|
| #1 | .2490 | .2384 | .2480 | .2511 | .2497 | .25108 | .2504 | .2473 |
| #2 | .2482 | .2360 | .2504 | .2514 | .2505 | .25090 | .2521 | .2480 |

|             |          |      |          |      |      |          |          |          |
|-------------|----------|------|----------|------|------|----------|----------|----------|
| Check ?     | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | Chk Pass |
| Value Range |          |      |          |      |      |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2474  | .2525  | .2525  | .2485  | .2454  | .2468  | .2516  | .2622  |
| Stddev | .0000  | .0006  | .0082  | .0004  | .0002  | .0005  | .0002  | .0015  |
| %RSD   | .0056  | .2389  | 3.239  | .1689  | .0860  | .1920  | .0715  | .5897  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .2475 | .2521 | .2582 | .2488 | .2455 | .2465 | .2515 | .2633 |
| #2 | .2474 | .2529 | .2467 | .2482 | .2452 | .2471 | .2517 | .2611 |

|             |          |          |      |          |          |          |          |      |
|-------------|----------|----------|------|----------|----------|----------|----------|------|
| Check ?     | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None |
| Value Range |          |          |      |          |          |          |          |      |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2451  | .2649  | .2514  | .2487  | .2431  | .2469  | .2480  | 2.539  |
| Stddev | .0011  | .0460  | .0016  | .0007  | .0007  | .0000  | .0010  | .042   |
| %RSD   | .4478  | 17.38  | .6229  | .2969  | .3068  | .0199  | .3962  | 1.650  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .2459 | .2974 | .2526 | .2482 | .2436 | .2469 | .2487 | 2.569 |
| #2 | .2444 | .2323 | .2503 | .2492 | .2425 | .2469 | .2473 | 2.510 |

|             |          |      |      |          |          |          |          |      |
|-------------|----------|------|------|----------|----------|----------|----------|------|
| Check ?     | Chk Pass | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None |
| Value Range |          |      |      |          |          |          |          |      |

Sample Name: CCVA2      Acquired: 5/11/2010 12:56:35      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2498  | .2523  | .2379  | .2468  | .2491  | .2437  | .2530  | -.0046 |
| Stddev | .0002  | .0006  | .0120  | .0005  | .0007  | .0007  | .0002  | .0017  |
| %RSD   | .0993  | .2200  | 5.042  | .1872  | .2745  | .2807  | .0769  | 37.24  |

|    |       |       |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|-------|-------|--------|
| #1 | .2499 | .2519 | .2463 | .2464 | .2486 | .2432 | .2529 | -.0058 |
| #2 | .2496 | .2527 | .2294 | .2471 | .2496 | .2442 | .2532 | -.0034 |

|         |          |          |      |          |          |          |          |      |
|---------|----------|----------|------|----------|----------|----------|----------|------|
| Check ? | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None |
| Value   |          |          |      |          |          |          |          |      |
| Range   |          |          |      |          |          |          |          |      |

| Elem   | Si2516 | Ti3361 | Ti1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .1273  | .2482  | .2434  | -.0010 | -.00006 |
| Stddev | .0092  | .0006  | .0023  | .0013  | .00008  |
| %RSD   | 7.216  | .2343  | .9581  | 122.6  | 140.56  |

|    |       |       |       |        |         |
|----|-------|-------|-------|--------|---------|
| #1 | .1338 | .2478 | .2418 | -.0019 | .00000  |
| #2 | .1208 | .2486 | .2451 | -.0001 | -.00012 |

|         |      |          |          |      |      |
|---------|------|----------|----------|------|------|
| Check ? | None | Chk Pass | Chk Pass | None | None |
| Value   |      |          |          |      |      |
| Range   |      |          |          |      |      |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 3022.5 | 66603. | 3140.6   | 787.21 |
| Stddev    | 12.3   | 13.    | 27.2     | .29    |
| %RSD      | .40649 | .01976 | .86529   | .03730 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 3013.8 | 66594. | 3159.8 | 787.42 |
| #2 | 3031.2 | 66613. | 3121.4 | 787.00 |

Sample Name: CCVB2      Acquired: 5/11/2010 12:59:16      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|         |        |          |         |          |          |         |        |        |        |
|---------|--------|----------|---------|----------|----------|---------|--------|--------|--------|
| Elem    | Al1670 | Al3944   | Sb2068  | As1890   | Ba4554   | Be2348  | B_2496 | Cd2144 | Cd2265 |
| Units   | ppm    | ppm      | ppm     | ppm      | ppm      | ppm     | ppm    | ppm    | ppm    |
| Avg     | 7.339  | 9.778    | -0.0049 | 1.004    | 9.852    | .00001  | .0018  | .0001  | .0000  |
| Stddev  | .004   | .019     | .0000   | .007     | .057     | .00003  | .0003  | .0000  | .0000  |
| %RSD    | .0559  | .1978    | .6434   | .6937    | .5803    | 303.60  | 13.89  | 3.229  | 39.44  |
| #1      | 7.336  | 9.764    | -0.0049 | .9995    | 9.892    | -0.0001 | .0017  | .0001  | .0000  |
| #2      | 7.342  | 9.791    | -0.0049 | 1.009    | 9.812    | .00003  | .0020  | .0001  | .0000  |
| Check ? | None   | Chk Pass | None    | Chk Pass | Chk Pass | None    | None   | None   | None   |
| Value   |        |          |         |          |          |         |        |        |        |
| Range   |        |          |         |          |          |         |        |        |        |

|         |        |          |        |         |         |         |          |         |          |
|---------|--------|----------|--------|---------|---------|---------|----------|---------|----------|
| Elem    | Cd2288 | Ca3158   | Cr2677 | Co2307  | Cu2247  | Cu3273  | Fe2599   | Pb2203  | Mg2790   |
| Units   | ppm    | ppm      | ppm    | ppm     | ppm     | ppm     | ppm      | ppm     | ppm      |
| Avg     | .0049  | 9.969    | .0002  | .0000   | -0.0013 | -0.0005 | 10.01    | .0000   | 9.773    |
| Stddev  | .0001  | .014     | .0001  | .000    | .0002   | .0011   | .05      | .000    | .033     |
| %RSD    | 1.968  | .1404    | 22.22  | 208.2   | 14.29   | 202.6   | .4731    | 2070.   | .3329    |
| #1      | .0048  | 9.959    | .0003  | -0.0001 | -0.0014 | -0.0013 | 10.04    | -0.0002 | 9.796    |
| #2      | .0049  | 9.979    | .0002  | .0000   | -0.0012 | .0002   | 9.977    | .0002   | 9.750    |
| Check ? | None   | Chk Pass | None   | None    | None    | None    | Chk Pass | None    | Chk Pass |
| Value   |        |          |        |         |         |         |          |         |          |
| Range   |        |          |        |         |         |         |          |         |          |

|         |          |        |         |         |         |          |         |        |          |
|---------|----------|--------|---------|---------|---------|----------|---------|--------|----------|
| Elem    | Mg2852   | Mn2576 | Mn2605  | Mo2020  | Ni2216  | K_7664   | Se1960  | Ag3280 | Na5895   |
| Units   | ppm      | ppm    | ppm     | ppm     | ppm     | ppm      | ppm     | ppm    | ppm      |
| Avg     | 10.01    | .0003  | -0.0007 | .0000   | -0.0051 | 10.06    | -0.0001 | .0002  | 10.06    |
| Stddev  | .01      | .0001  | .0003   | .001    | .0003   | .05      | .0032   | .0002  | .03      |
| %RSD    | .1275    | 25.31  | 43.77   | 4142.   | 6.786   | .4591    | 2901.   | 100.9  | .2658    |
| #1      | 10.00    | .0003  | -0.0005 | .0003   | -0.0053 | 10.03    | .0022   | .0004  | 10.04    |
| #2      | 10.02    | .0004  | -0.0010 | -0.0003 | -0.0048 | 10.09    | -0.0024 | .0001  | 10.08    |
| Check ? | Chk Pass | None   | None    | None    | None    | Chk Pass | None    | None   | Chk Pass |
| Value   |          |        |         |         |         |          |         |        |          |
| Range   |          |        |         |         |         |          |         |        |          |

Sample Name: CCVB2      Acquired: 5/11/2010 12:59:16      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Sn1899  | V_2924  | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -0.0001 | -0.0004 | .0001  | .0004  | 10.04  | 9.881  | .0003  | .0004  | 1.003  |
| Stddev | .0008   | .0001   | .0001  | .0001  | .02    | .024   | .0000  | .0014  | .002   |
| %RSD   | 560.1   | 35.55   | 88.69  | 30.86  | .2098  | .2444  | 8.878  | 320.0  | .1640  |

|    |         |         |       |       |       |       |       |         |       |
|----|---------|---------|-------|-------|-------|-------|-------|---------|-------|
| #1 | -0.0007 | -0.0003 | .0000 | .0003 | 10.03 | 9.864 | .0003 | -0.0006 | 1.002 |
| #2 | .0004   | -0.0005 | .0002 | .0005 | 10.06 | 9.898 | .0002 | .0015   | 1.004 |

|         |      |      |      |      |          |          |      |      |          |
|---------|------|------|------|------|----------|----------|------|------|----------|
| Check ? | None | None | None | None | Chk Pass | Chk Pass | None | None | Chk Pass |
| Value   |      |      |      |      |          |          |      |      |          |
| Range   |      |      |      |      |          |          |      |      |          |

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | .99785 |
| Stddev | .00042 |
| %RSD   | .04231 |

|    |        |
|----|--------|
| #1 | .99815 |
| #2 | .99755 |

|         |          |
|---------|----------|
| Check ? | Chk Pass |
| Value   |          |
| Range   |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2992.2 | 66042. | 3164.0   | 769.00 |
| Stddev    | 4.4    | 90.    | 8.8      | 1.95   |
| %RSD      | .14851 | .13687 | .27671   | .25329 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2989.0 | 66106. | 3157.8 | 767.62 |
| #2 | 2995.3 | 65978. | 3170.2 | 770.38 |

Sample Name: CCB2      Acquired: 5/11/2010 13:06:34      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0003  | -.0004 | -.0035 | .0027  | .0005  | .00001 | .0000  | .0000  |
| Stddev | .0002  | .0012  | .0017  | .0014  | .0002  | .00003 | .0008  | .000   |
| %RSD   | 68.40  | 274.9  | 48.10  | 50.18  | 39.72  | 476.79 | 2659.  | 175.9  |

|    |       |        |        |       |       |         |        |       |
|----|-------|--------|--------|-------|-------|---------|--------|-------|
| #1 | .0004 | .0004  | -.0047 | .0037 | .0004 | -.00001 | -.0006 | .0000 |
| #2 | .0001 | -.0013 | -.0023 | .0018 | .0007 | .00003  | .0006  | .0000 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0000  | .0000  | -.0093 | .0001  | -.0003 | -.0008 | -.0018 | .0072  |
| Stddev | .000   | .000   | .0068  | .0002  | .0001  | .0001  | .0004  | .0017  |
| %RSD   | 470.2  | 2674.  | 72.56  | 188.6  | 27.15  | 17.92  | 22.44  | 22.98  |

|    |       |        |        |       |        |        |        |       |
|----|-------|--------|--------|-------|--------|--------|--------|-------|
| #1 | .0000 | -.0001 | -.0141 | .0000 | -.0004 | -.0007 | -.0015 | .0060 |
| #2 | .0000 | .0001  | -.0045 | .0002 | -.0002 | -.0009 | -.0021 | .0084 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0007 | -.0055 | -.0017 | -.0001 | .0008  | -.0003 | .0002  | -.0156 |
| Stddev | .0010  | .0210  | .0013  | .0000  | .0021  | .0002  | .0001  | .0123  |
| %RSD   | 130.9  | 379.6  | 76.97  | 36.32  | 270.8  | 63.95  | 93.87  | 78.99  |

|    |        |        |        |        |        |        |       |        |
|----|--------|--------|--------|--------|--------|--------|-------|--------|
| #1 | -.0014 | -.0204 | -.0008 | -.0001 | -.0007 | -.0002 | .0001 | -.0243 |
| #2 | -.0001 | .0093  | -.0026 | -.0001 | .0022  | -.0005 | .0003 | -.0069 |

|            |          |      |          |          |          |          |          |          |
|------------|----------|------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |      |          |          |          |          |          |          |
| Low Limit  |          |      |          |          |          |          |          |          |



Sample Name: CCB2      Acquired: 5/11/2010 13:06:34      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0008 | .0002  | -.0219 | .0001  | -.0002 | -.0001 | -.0001 | .0001  |
| Stddev | .0008  | .0002  | .0094  | .0004  | .0004  | .0000  | .0000  | .0024  |
| %RSD   | 110.2  | 99.80  | 42.71  | 570.0  | 220.0  | 29.81  | 1.189  | 1689.  |

|    |        |       |        |        |        |        |        |        |
|----|--------|-------|--------|--------|--------|--------|--------|--------|
| #1 | -.0014 | .0000 | -.0153 | -.0002 | .0001  | -.0001 | -.0001 | -.0016 |
| #2 | -.0002 | .0003 | -.0286 | .0003  | -.0004 | -.0002 | -.0001 | .0019  |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

| Elem   | Si2516 | Ti3361 | Ti1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | -.0071 | -.0002 | .0006  | .0000  | -.00007 |
| Stddev | .0022  | .0000  | .0011  | .0014  | .00007  |
| %RSD   | 30.99  | 31.93  | 181.6  | 4050.  | 103.91  |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | -.0086 | -.0002 | .0014  | .0010  | -.00002 |
| #2 | -.0055 | -.0001 | -.0002 | -.0010 | -.00012 |

|            |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2977.0 | 65563. | 3093.8   | 773.53 |
| Stddev    | .1     | 245.   | 9.4      | 3.53   |
| %RSD      | .00411 | .37302 | .30420   | .45588 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2976.9 | 65736. | 3100.5 | 776.02 |
| #2 | 2977.1 | 65390. | 3087.2 | 771.04 |

Sample Name: K1004338-002D      Acquired: 5/11/2010 13:11:44      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|       |        |        |        |        |        |         |         |        |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .0932  | .0927  | -.0045 | .0107  | .0388  | -.00002 | F .0195 | .0000  |

|    |       |       |        |       |       |         |       |        |
|----|-------|-------|--------|-------|-------|---------|-------|--------|
| #1 | .0923 | .0901 | -.0028 | .0114 | .0387 | -.00004 | .0188 | -.0001 |
| #2 | .0940 | .0954 | -.0061 | .0100 | .0389 | .00001  | .0201 | .0001  |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | -.0003 | F 96.78 | F .0048 | -.0001 | -.0004 | .0001  | .0851  |

|    |       |        |       |       |        |        |        |       |
|----|-------|--------|-------|-------|--------|--------|--------|-------|
| #1 | .0000 | -.0002 | 96.93 | .0045 | -.0001 | -.0008 | -.0006 | .0906 |
| #2 | .0000 | -.0004 | 96.63 | .0051 | .0000  | .0000  | .0008  | .0796 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0006  | F 61.16 | .0031  | .0019  | -.0133 | 4.002  | .0100  | .0002  |

|    |       |       |       |       |        |       |       |        |
|----|-------|-------|-------|-------|--------|-------|-------|--------|
| #1 | .0008 | 61.00 | .0030 | .0019 | -.0133 | 3.958 | .0097 | -.0001 |
| #2 | .0004 | 61.31 | .0031 | .0018 | -.0132 | 4.045 | .0104 | .0005  |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 55.10 | .0002  | .0507  | F .0006 | F .0010 | .2755  | 26.07  | .0017  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 55.03 | .0000 | .0509 | .0006 | .0009 | .2762 | 26.03 | .0017 |
| #2 | 55.17 | .0004 | .0505 | .0006 | .0011 | .2749 | 26.12 | .0017 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0022 | .0064  | 1.2062 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0021 | .0045 | 1.2073 |
| #2 | -.0022 | .0083 | 1.2051 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2885.0 | 64100. | 3083.2   | 722.32 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2895.8 | 64219. | 3071.7 | 724.45 |
| #2 | 2874.2 | 63982. | 3094.7 | 720.19 |

Sample Name: K1004338-002S      Acquired: 5/11/2010 13:15:09      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 2.311  | .4779  | 1.017  | 1.991  | .04740 | 1.074  | .0486  | .0459  |

|    |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | 2.311 | .4780 | 1.016 | 1.991 | .04740 | 1.073 | .0484 | .0457 |
| #2 | 2.311 | .4778 | 1.018 | 1.991 | .04740 | 1.076 | .0489 | .0461 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2288 | Ca3158  | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0508  | F 106.1 | .1970  | .4507  | .2398  | .2355  | 1.096  | .4798  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0506 | 106.0 | .1972 | .4482 | .2389 | .2347 | 1.100 | .4772 |
| #2 | .0509 | 106.1 | .1969 | .4531 | .2406 | .2362 | 1.092 | .4823 |

|       |         |        |        |        |         |        |        |         |
|-------|---------|--------|--------|--------|---------|--------|--------|---------|
| Elem  | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 | Na5895  |
| Units | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg   | F 70.40 | .4772  | 1.023  | .4342  | F 14.13 | .9472  | .0475  | F 80.78 |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 70.33 | .4767 | 1.018 | .4321 | 14.13 | .9441 | .0480 | 80.87 |
| #2 | 70.47 | .4776 | 1.028 | .4363 | 14.13 | .9504 | .0470 | 80.69 |

|       |        |        |        |         |        |        |        |        |
|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem  | Sn1899 | V_2924 | Zn2062 | Zn2138  | P_2149 | Si2516 | Ti3361 | Tl1908 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | 10.59  | .5481  | .4744  | F .4619 | .2948  | 36.50  | .0033  | 1.004  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 10.56 | .5495 | .4713 | .4613 | .2979 | 36.43 | .0031 | .9987 |
| #2 | 10.63 | .5466 | .4774 | .4625 | .2916 | 36.57 | .0034 | 1.009 |

|       |        |        |
|-------|--------|--------|
| Elem  | Li6707 | Sr4077 |
| Units | ppm    | ppm    |
| Avg   | .0079  | 1.1997 |

|    |       |        |
|----|-------|--------|
| #1 | .0082 | 1.1997 |
| #2 | .0077 | 1.1998 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2856.3 | 63293. | 3076.3   | 707.07 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2863.8 | 63185. | 3071.4 | 708.93 |
| #2 | 2848.8 | 63402. | 3081.2 | 705.20 |

Sample Name: K1004229-001      Acquired: 5/11/2010 13:19:09      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B RERUN

|       |        |         |        |        |        |         |         |        |
|-------|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944  | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .0039  | F .0034 | -.0007 | .0046  | .0020  | -.00009 | F .0427 | -.0001 |

|    |       |       |        |       |       |         |       |        |
|----|-------|-------|--------|-------|-------|---------|-------|--------|
| #1 | .0036 | .0054 | -.0031 | .0033 | .0020 | -.00009 | .0423 | -.0001 |
| #2 | .0041 | .0014 | .0016  | .0059 | .0021 | -.00009 | .0430 | -.0002 |

|       |        |        |        |          |        |        |        |         |
|-------|--------|--------|--------|----------|--------|--------|--------|---------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677   | Co2307 | Cu2247 | Cu3273 | Fe2599  |
| Units | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm     |
| Avg   | .0000  | .0002  | .2652  | F -.0004 | -.0005 | .0019  | .0012  | F .0126 |

|    |       |       |       |        |        |       |       |       |
|----|-------|-------|-------|--------|--------|-------|-------|-------|
| #1 | .0000 | .0001 | .2602 | -.0003 | -.0006 | .0019 | .0009 | .0208 |
| #2 | .0000 | .0002 | .2703 | -.0005 | -.0004 | .0019 | .0016 | .0044 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | -.0019 | .0313  | .0001  | .0008  | -.0033 | F .0580 | .0055  | -.0004 |

|    |        |       |       |       |        |       |       |        |
|----|--------|-------|-------|-------|--------|-------|-------|--------|
| #1 | -.0021 | .0319 | .0001 | .0009 | -.0034 | .0669 | .0060 | -.0004 |
| #2 | -.0017 | .0307 | .0001 | .0007 | -.0032 | .0492 | .0050 | -.0004 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | .5797  | .0036  | -.0005 | F .0057 | F .0063 | .0375  | 6.654  | -.0005 |

|    |       |       |        |       |       |       |       |        |
|----|-------|-------|--------|-------|-------|-------|-------|--------|
| #1 | .5908 | .0036 | -.0006 | .0053 | .0060 | .0375 | 6.643 | -.0005 |
| #2 | .5686 | .0036 | -.0004 | .0062 | .0065 | .0374 | 6.665 | -.0006 |

|       |        |        |        |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|
| Elem  | Tl1908 | Li6707 | Sr4077 |  |  |  |  |  |
| Units | ppm    | ppm    | ppm    |  |  |  |  |  |
| Avg   | -.0047 | .0011  | .00115 |  |  |  |  |  |

|    |        |        |        |  |  |  |  |  |
|----|--------|--------|--------|--|--|--|--|--|
| #1 | -.0054 | .0025  | .00111 |  |  |  |  |  |
| #2 | -.0039 | -.0003 | .00119 |  |  |  |  |  |

|           |        |        |          |        |  |  |  |  |
|-----------|--------|--------|----------|--------|--|--|--|--|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |  |  |  |  |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |  |  |  |  |
| Avg       | 2969.4 | 66352. | 3058.8   | 784.04 |  |  |  |  |

|    |        |        |        |        |  |  |  |  |
|----|--------|--------|--------|--------|--|--|--|--|
| #1 | 2984.8 | 66191. | 3065.4 | 786.64 |  |  |  |  |
| #2 | 2954.0 | 66513. | 3052.2 | 781.44 |  |  |  |  |

Sample Name: K1004381-MB      Acquired: 5/11/2010 13:22:16      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0010  | -.0013 | -.0032 | .0004  | -.0001 | -.00001 | .0016  | .0000  |

|    |       |        |        |        |        |         |       |       |
|----|-------|--------|--------|--------|--------|---------|-------|-------|
| #1 | .0010 | -.0031 | -.0025 | .0014  | .0000  | .00000  | .0015 | .0000 |
| #2 | .0010 | .0005  | -.0039 | -.0005 | -.0002 | -.00003 | .0016 | .0000 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | .0000  | .0072  | -.0002 | -.0003 | -.0001 | -.0001 | .0030  |

|    |       |        |       |        |        |        |        |        |
|----|-------|--------|-------|--------|--------|--------|--------|--------|
| #1 | .0000 | -.0001 | .0075 | -.0001 | -.0001 | -.0001 | -.0001 | .0072  |
| #2 | .0001 | .0000  | .0070 | -.0003 | -.0005 | -.0002 | -.0002 | -.0013 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | -.0018 | -.0004 | .0000  | -.0001 | -.0001 | -.0095 | -.0002 | .0003  |

|    |        |        |        |        |        |        |        |       |
|----|--------|--------|--------|--------|--------|--------|--------|-------|
| #1 | -.0014 | -.0015 | -.0001 | -.0001 | -.0002 | .0232  | -.0003 | .0001 |
| #2 | -.0021 | .0008  | .0000  | -.0001 | .0000  | -.0421 | -.0001 | .0006 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149  | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | -.0257 | .0018  | -.0003 | .0000  | .0001  | F .2528 | .0209  | -.0002 |

|    |        |       |        |        |       |       |       |        |
|----|--------|-------|--------|--------|-------|-------|-------|--------|
| #1 | -.0340 | .0021 | -.0002 | .0001  | .0001 | .2491 | .0411 | -.0002 |
| #2 | -.0175 | .0015 | -.0004 | -.0001 | .0001 | .2565 | .0008 | -.0002 |

|       |        |        |         |
|-------|--------|--------|---------|
| Elem  | Tl1908 | Li6707 | Sr4077  |
| Units | ppm    | ppm    | ppm     |
| Avg   | -.0001 | .0005  | -.00010 |

|    |        |       |         |
|----|--------|-------|---------|
| #1 | .0010  | .0006 | -.00015 |
| #2 | -.0013 | .0004 | -.00004 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2950.5 | 65269. | 3100.6   | 769.77 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2959.7 | 65094. | 3097.3 | 773.41 |
| #2 | 2941.2 | 65443. | 3103.8 | 766.14 |



Sample Name: LCSW      Acquired: 5/11/2010 13:24:54      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|           |        |        |          |        |        |         |        |        |
|-----------|--------|--------|----------|--------|--------|---------|--------|--------|
| Elem      | Al3944 | Sb2068 | As1890   | Ba4554 | Be2348 | B_2496  | Cd2144 | Cd2265 |
| Units     | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg       | 5.015  | 2.565  | 2.533    | 5.282  | .12850 | F .0019 | 1.261  | 1.245  |
| #1        | 4.983  | 2.561  | 2.530    | 5.242  | .12782 | .0026   | 1.258  | 1.240  |
| #2        | 5.046  | 2.570  | 2.537    | 5.321  | .12919 | .0012   | 1.264  | 1.249  |
| Elem      | Cd2288 | Ca3158 | Cr2677   | Co2307 | Cu2247 | Cu3273  | Fe2599 | Pb2203 |
| Units     | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg       | 1.247  | 13.08  | .5216    | 1.256  | .6542  | .6492   | 2.630  | 2.514  |
| #1        | 1.246  | 13.04  | .5245    | 1.251  | .6530  | .6456   | 2.624  | 2.509  |
| #2        | 1.248  | 13.12  | .5188    | 1.262  | .6555  | .6528   | 2.635  | 2.520  |
| Elem      | Mg2852 | Mn2576 | Mo2020   | Ni2216 | K_7664 | Se1960  | Ag3280 | Na5895 |
| Units     | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg       | 12.97  | 1.309  | F -.0010 | 1.270  | 13.11  | 2.451   | .6571  | 12.69  |
| #1        | 12.90  | 1.315  | -.0010   | 1.266  | 13.16  | 2.453   | .6521  | 12.73  |
| #2        | 13.03  | 1.303  | -.0010   | 1.274  | 13.07  | 2.448   | .6621  | 12.66  |
| Elem      | Sn1899 | V_2924 | Zn2062   | Zn2138 | P_2149 | Si2516  | Ti3361 | Tl1908 |
| Units     | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg       | .0007  | 1.318  | 1.247    | 1.258  | .2701  | .0053   | -.0001 | 2.525  |
| #1        | .0002  | 1.325  | 1.243    | 1.257  | .2726  | .0117   | .0000  | 2.519  |
| #2        | .0012  | 1.312  | 1.251    | 1.258  | .2676  | -.0012  | -.0002 | 2.530  |
| Elem      | Li6707 | Sr4077 |          |        |        |         |        |        |
| Units     | ppm    | ppm    |          |        |        |         |        |        |
| Avg       | -.0001 | .00057 |          |        |        |         |        |        |
| #1        | .0013  | .00069 |          |        |        |         |        |        |
| #2        | -.0016 | .00046 |          |        |        |         |        |        |
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |        |         |        |        |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |        |         |        |        |
| Avg       | 2928.2 | 64576. | 3079.8   | 752.92 |        |         |        |        |
| #1        | 2935.3 | 64030. | 3094.1   | 753.93 |        |         |        |        |
| #2        | 2921.1 | 65122. | 3065.5   | 751.90 |        |         |        |        |

Sample Name: LCSW      Acquired: 5/11/2010 13:28:03      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B SILICON

|       |        |         |        |        |         |        |         |        |
|-------|--------|---------|--------|--------|---------|--------|---------|--------|
| Elem  | Al1670 | Al3944  | Sb2068 | As1890 | Ba4554  | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg   | .0056  | F .0060 | -.0022 | .0010  | F .0001 | .00002 | F .0022 | .0000  |

|    |       |       |        |       |       |        |       |       |
|----|-------|-------|--------|-------|-------|--------|-------|-------|
| #1 | .0055 | .0104 | -.0013 | .0016 | .0002 | .00003 | .0011 | .0000 |
| #2 | .0057 | .0017 | -.0031 | .0004 | .0000 | .00001 | .0033 | .0000 |

|       |        |        |          |         |        |        |        |        |
|-------|--------|--------|----------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158   | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | .0001  | F -.0058 | F .0050 | -.0003 | -.0007 | .0000  | .0395  |

|    |       |       |        |       |        |        |        |       |
|----|-------|-------|--------|-------|--------|--------|--------|-------|
| #1 | .0000 | .0001 | -.0051 | .0051 | -.0004 | -.0009 | .0003  | .0383 |
| #2 | .0000 | .0001 | -.0065 | .0049 | -.0002 | -.0006 | -.0003 | .0406 |

|       |        |         |        |        |        |         |        |        |
|-------|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0009  | F .0001 | .0001  | -.0007 | -.0029 | F .0108 | .0018  | .0002  |

|    |       |        |       |        |        |       |       |        |
|----|-------|--------|-------|--------|--------|-------|-------|--------|
| #1 | .0011 | -.0019 | .0001 | -.0007 | -.0028 | .0023 | .0020 | .0006  |
| #2 | .0007 | .0021  | .0001 | -.0008 | -.0029 | .0192 | .0017 | -.0003 |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 16.69 | -.0001 | -.0006 | F .0000 | F .0002 | .2568  | 9.939  | .0002  |

|    |       |        |        |        |       |       |       |       |
|----|-------|--------|--------|--------|-------|-------|-------|-------|
| #1 | 16.63 | -.0002 | -.0005 | -.0001 | .0003 | .2575 | 9.867 | .0002 |
| #2 | 16.76 | .0000  | -.0007 | .0001  | .0001 | .2561 | 10.01 | .0002 |

|       |        |        |         |
|-------|--------|--------|---------|
| Elem  | Tl1908 | Li6707 | Sr4077  |
| Units | ppm    | ppm    | ppm     |
| Avg   | -.0003 | .0009  | -.00004 |

|    |        |        |         |
|----|--------|--------|---------|
| #1 | -.0007 | -.0001 | .00006  |
| #2 | .0001  | .0020  | -.00013 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2953.7 | 65908. | 3119.2   | 768.98 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2971.9 | 65998. | 3098.1 | 772.67 |
| #2 | 2935.5 | 65817. | 3140.2 | 765.28 |

Sample Name: K1004381-001      Acquired: 5/11/2010 13:31:24      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|       |        |        |        |        |        |        |         |        |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg   | .3059  | .2878  | -.0039 | .0024  | .0160  | .00000 | F .0042 | .0000  |

|    |       |       |        |       |       |         |       |       |
|----|-------|-------|--------|-------|-------|---------|-------|-------|
| #1 | .3070 | .2863 | -.0029 | .0033 | .0161 | -.00003 | .0038 | .0000 |
| #2 | .3048 | .2894 | -.0049 | .0015 | .0159 | .00003  | .0046 | .0000 |

|       |        |        |        |         |        |        |        |        |
|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | .0001  | 2.126  | F .0005 | .0000  | .0001  | -.0001 | .5042  |

|    |       |       |       |       |       |        |        |       |
|----|-------|-------|-------|-------|-------|--------|--------|-------|
| #1 | .0001 | .0001 | 2.121 | .0005 | .0000 | -.0004 | .0008  | .5006 |
| #2 | .0002 | .0001 | 2.130 | .0006 | .0001 | .0006  | -.0011 | .5079 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | -.0012 | 1.217  | .0196  | -.0006 | -.0032 | F .5536 | -.0006 | -.0005 |

|    |        |       |       |        |        |       |        |        |
|----|--------|-------|-------|--------|--------|-------|--------|--------|
| #1 | -.0010 | 1.216 | .0197 | -.0006 | -.0031 | .5258 | -.0008 | .0000  |
| #2 | -.0013 | 1.219 | .0195 | -.0006 | -.0034 | .5815 | -.0004 | -.0009 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 3.380  | -.0002 | .0006  | F .0012 | F .0016 | .2769  | 6.536  | .0170  |

|    |       |        |       |       |       |       |       |       |
|----|-------|--------|-------|-------|-------|-------|-------|-------|
| #1 | 3.378 | -.0006 | .0004 | .0011 | .0016 | .2707 | 6.481 | .0168 |
| #2 | 3.383 | .0002  | .0008 | .0013 | .0016 | .2830 | 6.590 | .0172 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | .0007  | .0010  | .02577 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | .0016  | .0013 | .02566 |
| #2 | -.0003 | .0006 | .02587 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2986.4 | 66335. | 3137.8   | 778.75 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 3002.2 | 66038. | 3132.3 | 783.23 |
| #2 | 2970.6 | 66632. | 3143.4 | 774.28 |

Sample Name: K1004407-001      Acquired: 5/11/2010 13:34:29      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |          |        |        |        |         |         |        |
|-------|--------|----------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944   | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm      | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .0025  | F -.0017 | -.0045 | -.0007 | .0156  | -.00004 | F .0414 | -.0001 |

|    |       |        |        |        |       |         |       |        |
|----|-------|--------|--------|--------|-------|---------|-------|--------|
| #1 | .0026 | -.0049 | -.0030 | -.0001 | .0157 | -.00006 | .0412 | -.0001 |
| #2 | .0025 | .0014  | -.0059 | -.0013 | .0154 | -.00002 | .0415 | .0000  |

|       |        |        |         |        |        |        |        |         |
|-------|--------|--------|---------|--------|--------|--------|--------|---------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599  |
| Units | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg   | .0000  | .0000  | F 34.85 | .0635  | .0000  | .0009  | .0009  | F .0116 |

|    |       |       |       |       |        |       |        |       |
|----|-------|-------|-------|-------|--------|-------|--------|-------|
| #1 | .0000 | .0000 | 34.77 | .0635 | -.0002 | .0006 | -.0001 | .0148 |
| #2 | .0001 | .0000 | 34.94 | .0635 | .0001  | .0012 | .0019  | .0084 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0003  | F 14.64 | .0151  | -.0005 | -.0148 | 2.927  | .0005  | -.0001 |

|    |        |       |       |        |        |       |       |        |
|----|--------|-------|-------|--------|--------|-------|-------|--------|
| #1 | .0009  | 14.61 | .0150 | -.0006 | -.0152 | 2.918 | .0007 | -.0003 |
| #2 | -.0003 | 14.68 | .0152 | -.0003 | -.0145 | 2.935 | .0003 | .0000  |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 8.683  | .0004  | .0090  | F .0080 | F .0084 | .3877  | 29.79  | -.0001 |

|    |       |       |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|-------|-------|--------|
| #1 | 8.654 | .0003 | .0088 | .0079 | .0083 | .3878 | 29.75 | -.0001 |
| #2 | 8.713 | .0005 | .0091 | .0081 | .0085 | .3876 | 29.82 | .0000  |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0018 | .0038  | .08298 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0012 | .0046 | .08284 |
| #2 | -.0023 | .0031 | .08312 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2924.6 | 64334. | 3095.1   | 751.48 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2931.4 | 64219. | 3089.2 | 751.22 |
| #2 | 2917.8 | 64449. | 3100.9 | 751.74 |

Sample Name: K1004407-002      Acquired: 5/11/2010 13:37:57      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |          |        |        |        |         |         |        |
|-------|--------|----------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944   | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm      | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .0011  | F -.0045 | -.0055 | .0012  | .0155  | -.00003 | F .0416 | .0000  |

|    |       |        |        |       |       |         |       |       |
|----|-------|--------|--------|-------|-------|---------|-------|-------|
| #1 | .0011 | -.0036 | -.0061 | .0019 | .0158 | -.00007 | .0427 | .0000 |
| #2 | .0011 | -.0053 | -.0048 | .0005 | .0152 | .00001  | .0406 | .0000 |

|       |        |        |         |         |        |        |        |         |
|-------|--------|--------|---------|---------|--------|--------|--------|---------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599  |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg   | .0000  | -.0001 | F 34.38 | F .0014 | -.0002 | .0000  | -.0008 | F .0119 |

|    |       |        |       |       |        |        |        |       |
|----|-------|--------|-------|-------|--------|--------|--------|-------|
| #1 | .0000 | -.0001 | 34.39 | .0013 | -.0001 | .0004  | -.0018 | .0076 |
| #2 | .0001 | -.0002 | 34.37 | .0014 | -.0004 | -.0005 | .0001  | .0161 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0002  | F 14.62 | .0054  | -.0008 | -.0150 | 2.860  | .0001  | .0005  |

|    |        |       |       |        |        |       |        |       |
|----|--------|-------|-------|--------|--------|-------|--------|-------|
| #1 | .0004  | 14.53 | .0053 | -.0006 | -.0147 | 2.852 | .0006  | .0004 |
| #2 | -.0001 | 14.70 | .0054 | -.0009 | -.0152 | 2.868 | -.0004 | .0005 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 8.592  | .0002  | .0001  | F .0054 | F .0058 | .3742  | 29.49  | -.0001 |

|    |       |        |        |       |       |       |       |        |
|----|-------|--------|--------|-------|-------|-------|-------|--------|
| #1 | 8.557 | .0009  | .0002  | .0052 | .0058 | .3727 | 29.33 | .0000  |
| #2 | 8.627 | -.0005 | -.0001 | .0055 | .0058 | .3757 | 29.65 | -.0002 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0017 | .0027  | .08169 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0011 | .0023 | .08151 |
| #2 | -.0023 | .0031 | .08187 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2954.1 | 65115. | 3121.4   | 761.08 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2963.0 | 65095. | 3100.8 | 762.33 |
| #2 | 2945.3 | 65135. | 3141.9 | 759.82 |



Sample Name: K1004407-003      Acquired: 5/11/2010 13:41:26      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |          |        |        |        |         |         |        |
|-------|--------|----------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944   | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm      | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .0010  | F -.0004 | -.0038 | .0022  | .0159  | -.00008 | F .0423 | .0000  |

|    |       |        |        |       |       |         |       |       |
|----|-------|--------|--------|-------|-------|---------|-------|-------|
| #1 | .0011 | .0021  | -.0027 | .0020 | .0162 | -.00006 | .0418 | .0000 |
| #2 | .0010 | -.0029 | -.0049 | .0024 | .0157 | -.00010 | .0428 | .0000 |

|       |        |        |         |         |        |        |        |         |
|-------|--------|--------|---------|---------|--------|--------|--------|---------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599  |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg   | .0000  | -.0001 | F 34.81 | F .0010 | -.0002 | -.0005 | .0006  | F .0028 |

|    |       |        |       |       |        |        |       |       |
|----|-------|--------|-------|-------|--------|--------|-------|-------|
| #1 | .0000 | .0000  | 34.87 | .0010 | .0001  | -.0006 | .0005 | .0003 |
| #2 | .0000 | -.0001 | 34.74 | .0011 | -.0004 | -.0004 | .0007 | .0052 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | F 14.73 | .0053  | -.0008 | -.0153 | 2.907  | -.0021 | .0005  |

|    |        |       |       |        |        |       |        |       |
|----|--------|-------|-------|--------|--------|-------|--------|-------|
| #1 | -.0006 | 14.67 | .0052 | -.0009 | -.0154 | 2.892 | -.0019 | .0009 |
| #2 | .0007  | 14.79 | .0053 | -.0006 | -.0153 | 2.922 | -.0023 | .0000 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 8.694  | -.0006 | .0001  | F .0027 | F .0031 | .3538  | 29.82  | -.0002 |

|    |       |        |        |       |       |       |       |        |
|----|-------|--------|--------|-------|-------|-------|-------|--------|
| #1 | 8.665 | -.0001 | .0002  | .0027 | .0031 | .3521 | 29.72 | -.0002 |
| #2 | 8.722 | -.0011 | -.0001 | .0026 | .0030 | .3555 | 29.91 | -.0002 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | .0002  | .0031  | .08289 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0010 | .0030 | .08295 |
| #2 | .0015  | .0031 | .08282 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2944.1 | 64900. | 3108.4   | 760.65 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2946.4 | 64903. | 3087.1 | 761.15 |
| #2 | 2941.9 | 64896. | 3129.7 | 760.16 |

Sample Name: CCVA3      Acquired: 5/11/2010 13:44:55      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2524  | .2334  | .2443  | .2470  | .2545  | .24813 | .2479  | .2503  | .2503  |
| Stddev | .0004  | .0026  | .0016  | .0002  | .0001  | .00062 | .0012  | .0002  | .0012  |
| %RSD   | .1635  | 1.109  | .6466  | .0742  | .0539  | .25094 | .4883  | .0830  | .4713  |

|    |       |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | .2521 | .2353 | .2432 | .2471 | .2546 | .24857 | .2488 | .2501 | .2495 |
| #2 | .2527 | .2316 | .2454 | .2468 | .2544 | .24769 | .2471 | .2504 | .2512 |

|             |          |      |          |      |      |          |          |          |          |
|-------------|----------|------|----------|------|------|----------|----------|----------|----------|
| Check ?     | Chk Pass | None | Chk Pass | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value Range |          |      |          |      |      |          |          |          |          |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2514  | .2508  | .2494  | .2475  | .2502  | .2478  | .2541  | .2478  | .2546  |
| Stddev | .0000  | .0001  | .0004  | .0009  | .0000  | .0025  | .0011  | .0001  | .0253  |
| %RSD   | .0048  | .0482  | .1523  | .3595  | .0105  | 1.003  | .4317  | .0217  | 9.937  |

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .2514 | .2507 | .2491 | .2468 | .2502 | .2496 | .2549 | .2477 | .2367 |
| #2 | .2514 | .2509 | .2496 | .2481 | .2502 | .2461 | .2533 | .2478 | .2725 |

|             |          |      |          |          |          |          |      |          |      |
|-------------|----------|------|----------|----------|----------|----------|------|----------|------|
| Check ?     | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | None |
| Value Range |          |      |          |          |          |          |      |          |      |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2500  | .2510  | .2438  | .2501  | .2503  | 2.503  | .2508  | .2516  | .2361  |
| Stddev | .0024  | .0001  | .0037  | .0009  | .0006  | .067   | .0012  | .0005  | .0206  |
| %RSD   | .9518  | .0236  | 1.528  | .3703  | .2326  | 2.685  | .4755  | .1853  | 8.743  |

|    |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .2484 | .2510 | .2465 | .2494 | .2499 | 2.455 | .2500 | .2519 | .2507 |
| #2 | .2517 | .2509 | .2412 | .2507 | .2507 | 2.550 | .2517 | .2513 | .2215 |

|             |      |          |          |          |          |      |          |          |      |
|-------------|------|----------|----------|----------|----------|------|----------|----------|------|
| Check ?     | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass | Chk Pass | None |
| Value Range |      |          |          |          |          |      |          |          |      |

Sample Name: CCVA3      Acquired: 5/11/2010 13:44:55      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2507  | .2520  | .2445  | .2527  | -.0009 | .1521  | .2494  | .2457  | -.0017 |
| Stddev | .0015  | .0004  | .0004  | .0002  | .0002  | .0030  | .0004  | .0001  | .0004  |
| %RSD   | .6124  | .1610  | .1527  | .0779  | 20.52  | 2.005  | .1561  | .0545  | 26.92  |

|    |       |       |       |       |        |       |       |       |        |
|----|-------|-------|-------|-------|--------|-------|-------|-------|--------|
| #1 | .2518 | .2517 | .2442 | .2529 | -.0008 | .1499 | .2492 | .2458 | -.0020 |
| #2 | .2497 | .2523 | .2448 | .2526 | -.0010 | .1542 | .2497 | .2456 | -.0013 |

|         |          |          |          |          |      |      |          |          |      |
|---------|----------|----------|----------|----------|------|------|----------|----------|------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | None | Chk Pass | Chk Pass | None |
| Value   |          |          |          |          |      |      |          |          |      |
| Range   |          |          |          |          |      |      |          |          |      |

|        |        |
|--------|--------|
| Elem   | Sr4077 |
| Units  | ppm    |
| Avg    | .00009 |
| Stddev | .00010 |
| %RSD   | 112.96 |

|    |        |
|----|--------|
| #1 | .00015 |
| #2 | .00002 |

|         |      |
|---------|------|
| Check ? | None |
| Value   |      |
| Range   |      |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2969.2 | 65628. | 3077.6   | 775.09 |
| Stddev    | 6.0    | 134.   | 16.8     | .34    |
| %RSD      | .20219 | .20378 | .54658   | .04409 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2973.4 | 65722. | 3065.7 | 774.85 |
| #2 | 2965.0 | 65533. | 3089.5 | 775.33 |

Sample Name: CCVB3      Acquired: 5/11/2010 13:47:49      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | 7.316  | 9.738  | -.0052 | .9977  | 10.00  | -.00004 | .0015  | .0001  |
| Stddev | .030   | .005   | .0013  | .0009  | .00    | .00009  | .0024  | .0000  |
| %RSD   | .4064  | .0472  | 25.22  | .0918  | .0416  | 199.77  | 159.4  | 22.62  |

|    |       |       |        |       |       |         |        |       |
|----|-------|-------|--------|-------|-------|---------|--------|-------|
| #1 | 7.295 | 9.734 | -.0061 | .9983 | 10.00 | -.00010 | .0033  | .0001 |
| #2 | 7.337 | 9.741 | -.0043 | .9970 | 9.997 | .00002  | -.0002 | .0000 |

|         |      |          |      |          |          |      |      |      |
|---------|------|----------|------|----------|----------|------|------|------|
| Check ? | None | Chk Pass | None | Chk Pass | Chk Pass | None | None | None |
| Value   |      |          |      |          |          |      |      |      |
| Range   |      |          |      |          |          |      |      |      |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0000  | .0049  | 10.03  | .0002  | .0001  | -.0009 | -.0002 | 10.02  |
| Stddev | .0000  | .0001  | .02    | .0003  | .0006  | .0000  | .0009  | .03    |
| %RSD   | 6.153  | 1.446  | .1955  | 128.4  | 493.6  | 4.487  | 510.4  | .3240  |

|    |       |       |       |       |        |        |        |       |
|----|-------|-------|-------|-------|--------|--------|--------|-------|
| #1 | .0000 | .0050 | 10.05 | .0004 | -.0003 | -.0010 | .0004  | 10.05 |
| #2 | .0000 | .0049 | 10.02 | .0000 | .0005  | -.0009 | -.0008 | 9.999 |

|         |      |      |          |      |      |      |      |          |
|---------|------|------|----------|------|------|------|------|----------|
| Check ? | None | None | Chk Pass | None | None | None | None | Chk Pass |
| Value   |      |      |          |      |      |      |      |          |
| Range   |      |      |          |      |      |      |      |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0014  | 9.795  | 9.978  | .0003  | .0005  | .0004  | -.0049 | 10.06  |
| Stddev | .0005  | .051   | .075   | .0001  | .0004  | .0001  | .0002  | .04    |
| %RSD   | 36.81  | .5157  | .7515  | 21.80  | 71.48  | 16.75  | 3.482  | .4276  |

|    |       |       |       |       |       |       |        |       |
|----|-------|-------|-------|-------|-------|-------|--------|-------|
| #1 | .0010 | 9.830 | 10.03 | .0002 | .0003 | .0004 | -.0051 | 10.09 |
| #2 | .0018 | 9.759 | 9.925 | .0003 | .0008 | .0003 | -.0048 | 10.03 |

|         |      |          |          |      |      |      |      |          |
|---------|------|----------|----------|------|------|------|------|----------|
| Check ? | None | Chk Pass | Chk Pass | None | None | None | None | Chk Pass |
| Value   |      |          |          |      |      |      |      |          |
| Range   |      |          |          |      |      |      |      |          |

Sample Name: CCVB3      Acquired: 5/11/2010 13:47:49      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem        | Se1960 | Ag3280 | Na5895   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149   |
|-------------|--------|--------|----------|--------|--------|--------|--------|----------|
| Units       | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg         | .0005  | .0008  | 9.968    | -.0006 | -.0004 | .0001  | .0004  | 9.970    |
| Stddev      | .0011  | .0007  | .022     | .0002  | .0004  | .0001  | .0000  | .041     |
| %RSD        | 230.8  | 96.99  | .2231    | 31.69  | 93.76  | 68.72  | 2.616  | .4082    |
| #1          | .0013  | .0002  | 9.983    | -.0004 | -.0001 | .0001  | .0004  | 9.941    |
| #2          | -.0003 | .0013  | 9.952    | -.0007 | -.0007 | .0000  | .0004  | 9.999    |
| Check ?     | None   | None   | Chk Pass | None   | None   | None   | None   | Chk Pass |
| Value Range |        |        |          |        |        |        |        |          |

| Elem        | Si2516   | Ti3361 | Ti1908 | Li6707   | Sr4077   |
|-------------|----------|--------|--------|----------|----------|
| Units       | ppm      | ppm    | ppm    | ppm      | ppm      |
| Avg         | 9.757    | .0002  | .0007  | 1.005    | 1.0127   |
| Stddev      | .009     | .0002  | .0004  | .011     | .0014    |
| %RSD        | .0948    | 148.3  | 53.24  | 1.114    | .13407   |
| #1          | 9.763    | .0003  | .0009  | 1.013    | 1.0136   |
| #2          | 9.750    | .0000  | .0004  | .9969    | 1.0117   |
| Check ?     | Chk Pass | None   | None   | Chk Pass | Chk Pass |
| Value Range |          |        |        |          |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2977.6 | 65505. | 3115.3   | 763.25 |
| Stddev    | 3.0    | 102.   | 15.3     | 2.73   |
| %RSD      | .10128 | .15566 | .49090   | .35779 |
| #1        | 2979.8 | 65432. | 3126.1   | 761.32 |
| #2        | 2975.5 | 65577. | 3104.5   | 765.19 |



Sample Name: CCB3      Acquired: 5/11/2010 13:51:15      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .0004  | .0002  | -.0046 | -.0005 | .0002  | -.00002 | -.0006 | .0000  |
| Stddev | .0000  | .0020  | .0016  | .0005  | .0002  | .00002  | .0000  | .0001  |
| %RSD   | 2.794  | 980.8  | 33.52  | 96.14  | 69.71  | 126.97  | 4.885  | 1657.  |

|    |       |        |        |        |       |         |        |       |
|----|-------|--------|--------|--------|-------|---------|--------|-------|
| #1 | .0004 | -.0012 | -.0035 | -.0009 | .0003 | -.00003 | -.0006 | .0000 |
| #2 | .0004 | .0017  | -.0057 | -.0002 | .0001 | .00000  | -.0005 | .0000 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0001 | -.0001 | .0017  | .0002  | -.0003 | -.0001 | -.0001 | .0011  |
| Stddev | .0001  | .0000  | .0070  | .0002  | .0002  | .0004  | .0005  | .0082  |
| %RSD   | 99.63  | 29.07  | 403.5  | 107.7  | 63.38  | 513.7  | 875.8  | 722.0  |

|    |        |        |        |       |        |        |        |        |
|----|--------|--------|--------|-------|--------|--------|--------|--------|
| #1 | .0000  | -.0001 | -.0032 | .0000 | -.0002 | -.0003 | .0003  | .0070  |
| #2 | -.0001 | -.0001 | .0067  | .0003 | -.0005 | .0002  | -.0004 | -.0047 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0016 | .0220  | -.0049 | .0000  | .0008  | -.0004 | .0001  | .0030  |
| Stddev | .0009  | .0106  | .0012  | .000   | .0004  | .0001  | .0001  | .0081  |
| %RSD   | 56.95  | 47.87  | 24.17  | 624.0  | 50.60  | 17.76  | 41.87  | 268.5  |

|    |        |       |        |       |       |        |       |        |
|----|--------|-------|--------|-------|-------|--------|-------|--------|
| #1 | -.0009 | .0295 | -.0041 | .0000 | .0005 | -.0005 | .0001 | .0087  |
| #2 | -.0022 | .0146 | -.0058 | .0000 | .0011 | -.0004 | .0002 | -.0027 |

|            |          |      |          |          |          |          |          |          |
|------------|----------|------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |      |          |          |          |          |          |          |
| Low Limit  |          |      |          |          |          |          |          |          |

Sample Name: CCB3      Acquired: 5/11/2010 13:51:15      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0008  | .0004  | -.0027 | -.0008 | -.0006 | -.0002 | .0000  | -.0024 |
| Stddev | .0007  | .0002  | .0111  | .0009  | .0001  | .0001  | .000   | .0001  |
| %RSD   | 91.40  | 49.14  | 416.1  | 112.8  | 9.125  | 67.24  | 184.4  | 4.427  |

|    |       |       |        |        |        |        |       |        |
|----|-------|-------|--------|--------|--------|--------|-------|--------|
| #1 | .0013 | .0003 | -.0105 | -.0014 | -.0007 | -.0003 | .0000 | -.0023 |
| #2 | .0003 | .0006 | .0052  | -.0002 | -.0006 | -.0001 | .0000 | -.0025 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

| Elem   | Si2516 | Ti3361 | Tl1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | -.0086 | -.0001 | -.0003 | .0007  | -.00001 |
| Stddev | .0274  | .0000  | .0013  | .0002  | .00012  |
| %RSD   | 318.0  | 6.632  | 426.4  | 23.89  | 1083.8  |

|    |        |        |        |       |         |
|----|--------|--------|--------|-------|---------|
| #1 | -.0280 | -.0001 | -.0012 | .0005 | -.00009 |
| #2 | .0108  | -.0001 | .0006  | .0008 | .00007  |

|            |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2952.6 | 65271. | 3096.8   | 765.03 |
| Stddev    | 18.6   | 116.   | 11.7     | 7.62   |
| %RSD      | .62989 | .17846 | .37904   | .99616 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2965.8 | 65353. | 3105.1 | 770.42 |
| #2 | 2939.5 | 65188. | 3088.5 | 759.64 |

Sample Name: K1004414-001      Acquired: 5/11/2010 13:53:52      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |         |        |         |        |
|-------|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554  | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg   | .0279  | .0234  | -.0046 | -.0009 | F .0008 | .00000 | F .0006 | .0000  |

|    |       |       |        |        |       |         |       |       |
|----|-------|-------|--------|--------|-------|---------|-------|-------|
| #1 | .0276 | .0192 | -.0069 | -.0003 | .0008 | -.00004 | .0005 | .0000 |
| #2 | .0283 | .0277 | -.0023 | -.0014 | .0007 | .00004  | .0007 | .0000 |

|       |        |        |        |         |        |        |        |        |
|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | -.0001 | 1.540  | F .0002 | -.0003 | .0172  | .0177  | .0284  |

|    |        |        |       |       |        |       |       |       |
|----|--------|--------|-------|-------|--------|-------|-------|-------|
| #1 | -.0001 | -.0002 | 1.543 | .0001 | -.0002 | .0171 | .0173 | .0251 |
| #2 | .0001  | .0000  | 1.537 | .0002 | -.0005 | .0174 | .0181 | .0317 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | -.0006 | .5977  | .0023  | -.0004 | -.0020 | F .1850 | -.0003 | .0003  |

|    |        |       |       |        |        |       |        |       |
|----|--------|-------|-------|--------|--------|-------|--------|-------|
| #1 | -.0008 | .5964 | .0023 | -.0003 | -.0021 | .1717 | -.0004 | .0005 |
| #2 | -.0005 | .5991 | .0023 | -.0005 | -.0019 | .1983 | -.0002 | .0001 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 1.211  | -.0006 | -.0004 | F .0003 | F .0006 | .2373  | 3.776  | .0002  |

|    |       |        |        |       |       |       |       |       |
|----|-------|--------|--------|-------|-------|-------|-------|-------|
| #1 | 1.209 | -.0006 | -.0006 | .0004 | .0005 | .2362 | 3.806 | .0002 |
| #2 | 1.212 | -.0007 | -.0002 | .0002 | .0006 | .2383 | 3.746 | .0002 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | .0000  | .0019  | .01309 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | .0001  | .0012 | .01315 |
| #2 | -.0001 | .0025 | .01303 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2990.2 | 66541. | 3132.4   | 781.29 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 3003.0 | 66361. | 3127.5 | 783.55 |
| #2 | 2977.4 | 66722. | 3137.4 | 779.04 |

Sample Name: K1004467-001      Acquired: 5/11/2010 13:56:58      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |        |        |         |        |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg   | 1.311  | 1.349  | -.0029 | .0025  | .0473  | .00011 | F .0088 | .0000  |

|    |       |       |        |       |       |        |       |       |
|----|-------|-------|--------|-------|-------|--------|-------|-------|
| #1 | 1.301 | 1.356 | -.0011 | .0009 | .0472 | .00007 | .0094 | .0001 |
| #2 | 1.321 | 1.342 | -.0047 | .0042 | .0475 | .00014 | .0081 | .0000 |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | .0000  | F 54.55 | F .0017 | .0019  | .0038  | .0036  | 2.571  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0001 | .0000 | 54.52 | .0015 | .0018 | .0037 | .0038 | 2.589 |
| #2 | .0001 | .0000 | 54.58 | .0019 | .0020 | .0038 | .0034 | 2.552 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0019  | F 17.86 | .2181  | .0260  | -.0079 | 5.172  | -.0013 | .0002  |

|    |       |       |       |       |        |       |        |       |
|----|-------|-------|-------|-------|--------|-------|--------|-------|
| #1 | .0022 | 17.85 | .2170 | .0257 | -.0083 | 5.160 | -.0007 | .0002 |
| #2 | .0016 | 17.88 | .2191 | .0264 | -.0076 | 5.184 | -.0018 | .0002 |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 17.80 | .0003  | .0043  | F .0083 | F .0088 | .4566  | 22.84  | .0747  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 17.84 | .0000 | .0043 | .0082 | .0088 | .4566 | 22.86 | .0756 |
| #2 | 17.76 | .0006 | .0043 | .0084 | .0089 | .4567 | 22.83 | .0739 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0001 | .0073  | .22027 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | .0002  | .0080 | .21954 |
| #2 | -.0004 | .0066 | .22100 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2952.6 | 65661. | 3167.1   | 748.77 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2966.5 | 65708. | 3166.2 | 751.33 |
| #2 | 2938.6 | 65614. | 3168.0 | 746.21 |

Sample Name: K1004467-001D      Acquired: 5/11/2010 14:00:25      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |        |        |         |        |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg   | 1.334  | 1.369  | -.0024 | .0028  | .0482  | .00006 | F .0088 | .0000  |

|    |       |       |        |       |       |        |       |       |
|----|-------|-------|--------|-------|-------|--------|-------|-------|
| #1 | 1.334 | 1.370 | -.0037 | .0032 | .0483 | .00001 | .0089 | .0000 |
| #2 | 1.335 | 1.368 | -.0010 | .0025 | .0481 | .00010 | .0086 | .0000 |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | -.0001 | F 56.11 | F .0023 | .0023  | .0032  | .0033  | 2.620  |

|    |       |        |       |       |       |       |       |       |
|----|-------|--------|-------|-------|-------|-------|-------|-------|
| #1 | .0000 | .0000  | 56.22 | .0022 | .0018 | .0034 | .0033 | 2.614 |
| #2 | .0000 | -.0001 | 56.00 | .0023 | .0029 | .0031 | .0032 | 2.626 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0033  | F 18.45 | .2245  | .0268  | -.0081 | 5.347  | .0022  | .0006  |

|    |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | .0024 | 18.42 | .2256 | .0267 | -.0080 | 5.326 | .0023 | .0005 |
| #2 | .0041 | 18.47 | .2235 | .0270 | -.0081 | 5.367 | .0021 | .0008 |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 18.23 | .0008  | .0048  | F .0084 | F .0090 | .4744  | 23.49  | .0761  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 18.14 | .0012 | .0049 | .0084 | .0090 | .4721 | 23.38 | .0759 |
| #2 | 18.33 | .0004 | .0046 | .0083 | .0090 | .4767 | 23.61 | .0764 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0020 | .0096  | .22634 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0017 | .0090 | .22663 |
| #2 | -.0022 | .0103 | .22605 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2962.1 | 65229. | 3174.5   | 751.68 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2959.4 | 65152. | 3165.8 | 752.26 |
| #2 | 2964.9 | 65306. | 3183.2 | 751.09 |



Sample Name: K1004467-001L      Acquired: 5/11/2010 14:03:52      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B 1/5

|       |        |        |        |        |        |         |         |        |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496  | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg   | .3375  | .3095  | -.0058 | .0000  | .0098  | -.00004 | F .0011 | .0001  |

|    |       |       |        |        |       |         |       |       |
|----|-------|-------|--------|--------|-------|---------|-------|-------|
| #1 | .3345 | .3105 | -.0062 | .0009  | .0095 | -.00001 | .0015 | .0001 |
| #2 | .3404 | .3085 | -.0055 | -.0009 | .0101 | -.00007 | .0007 | .0001 |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | .0001  | F 11.14 | F .0001 | .0005  | .0002  | .0006  | .5398  |

|    |       |       |       |        |       |        |       |       |
|----|-------|-------|-------|--------|-------|--------|-------|-------|
| #1 | .0000 | .0000 | 11.15 | -.0003 | .0005 | .0005  | .0004 | .5359 |
| #2 | .0000 | .0001 | 11.14 | .0005  | .0004 | -.0001 | .0009 | .5438 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0012  | 3.603  | .0448  | .0050  | -.0013 | F 1.051 | .0007  | .0003  |

|    |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | .0018 | 3.605 | .0449 | .0050 | -.0013 | 1.050 | .0006 | .0005 |
| #2 | .0006 | 3.600 | .0446 | .0049 | -.0013 | 1.052 | .0007 | .0002 |

|       |        |        |        |         |         |        |        |        |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | 3.550  | .0004  | .0007  | F .0022 | F .0023 | .0948  | 4.670  | .0188  |

|    |       |        |       |       |       |       |       |       |
|----|-------|--------|-------|-------|-------|-------|-------|-------|
| #1 | 3.539 | .0011  | .0005 | .0022 | .0024 | .0986 | 4.654 | .0177 |
| #2 | 3.560 | -.0003 | .0010 | .0022 | .0023 | .0909 | 4.686 | .0199 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | .0003  | .0011  | .04461 |

|    |       |       |        |
|----|-------|-------|--------|
| #1 | .0002 | .0007 | .04468 |
| #2 | .0003 | .0014 | .04454 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2982.3 | 66065. | 3122.1   | 775.16 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2985.7 | 65922. | 3132.2 | 775.71 |
| #2 | 2979.0 | 66208. | 3112.1 | 774.60 |

Sample Name: K1004467-001S      Acquired: 5/11/2010 14:07:14      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 3.566  | .4784  | 1.020  | 2.006  | .04845 | 1.073  | .0479  | .0462  |

|    |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | 3.572 | .4783 | 1.018 | 2.006 | .04850 | 1.076 | .0477 | .0459 |
| #2 | 3.560 | .4784 | 1.022 | 2.007 | .04840 | 1.069 | .0481 | .0465 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2288 | Ca3158  | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0515  | F 56.09 | .1938  | .4625  | .2427  | .2427  | 3.699  | .4751  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0515 | 56.14 | .1939 | .4597 | .2422 | .2446 | 3.703 | .4738 |
| #2 | .0515 | 56.04 | .1938 | .4654 | .2431 | .2408 | 3.695 | .4763 |

|       |         |        |        |        |        |        |        |         |
|-------|---------|--------|--------|--------|--------|--------|--------|---------|
| Elem  | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 | Na5895  |
| Units | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg   | F 18.20 | .7032  | 1.034  | .4474  | 5.234  | .9636  | .0486  | F 34.66 |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | 18.21 | .7028 | 1.030 | .4457 | 5.297 | .9593 | .0487 | 34.68 |
| #2 | 18.19 | .7036 | 1.038 | .4491 | 5.170 | .9680 | .0486 | 34.65 |

|       |        |        |        |         |        |        |        |        |
|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem  | Sn1899 | V_2924 | Zn2062 | Zn2138  | P_2149 | Si2516 | Ti3361 | Tl1908 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0007  | .4968  | .4778  | F .4804 | .4773  | 33.85  | .0829  | 1.010  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0000 | .4969 | .4761 | .4799 | .4784 | 33.83 | .0834 | 1.008 |
| #2 | .0014 | .4966 | .4794 | .4809 | .4761 | 33.88 | .0824 | 1.012 |

|       |        |        |
|-------|--------|--------|
| Elem  | Li6707 | Sr4077 |
| Units | ppm    | ppm    |
| Avg   | .0096  | .22638 |

|    |       |        |
|----|-------|--------|
| #1 | .0078 | .22635 |
| #2 | .0113 | .22641 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2929.2 | 64367. | 3130.8   | 742.26 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2938.6 | 64531. | 3129.6 | 743.11 |
| #2 | 2919.8 | 64203. | 3132.1 | 741.42 |

Sample Name: K1004469-010      Acquired: 5/11/2010 14:10:24      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Al1670 | Al3944  | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0048  | F .0011 | -.0043 | .0152  | .1150  | .00002 | .0764  | .0000  |

|    |       |       |        |       |       |         |       |        |
|----|-------|-------|--------|-------|-------|---------|-------|--------|
| #1 | .0049 | .0003 | -.0041 | .0142 | .1152 | -.00002 | .0758 | -.0001 |
| #2 | .0048 | .0020 | -.0046 | .0161 | .1148 | .00006  | .0770 | .0000  |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | -.0002 | F 60.80 | F .0000 | .0011  | .0035  | .0040  | .0476  |

|    |        |        |       |        |       |       |       |       |
|----|--------|--------|-------|--------|-------|-------|-------|-------|
| #1 | .0001  | -.0002 | 60.76 | .0006  | .0009 | .0038 | .0048 | .0420 |
| #2 | -.0001 | -.0002 | 60.85 | -.0006 | .0013 | .0032 | .0032 | .0533 |

|       |        |         |        |        |        |         |        |        |
|-------|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0002  | F 41.36 | 1.235  | .0025  | -.0098 | F 1.369 | .0011  | .0003  |

|    |        |       |       |       |        |       |        |       |
|----|--------|-------|-------|-------|--------|-------|--------|-------|
| #1 | -.0006 | 41.39 | 1.240 | .0029 | -.0101 | 1.347 | .0028  | .0005 |
| #2 | .0011  | 41.32 | 1.231 | .0021 | -.0094 | 1.390 | -.0007 | .0002 |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 45.74 | -.0005 | .0040  | F .0018 | F .0019 | .2207  | 26.46  | -.0003 |

|    |       |        |       |       |       |       |       |        |
|----|-------|--------|-------|-------|-------|-------|-------|--------|
| #1 | 45.88 | -.0004 | .0040 | .0017 | .0019 | .2205 | 26.58 | -.0005 |
| #2 | 45.60 | -.0006 | .0040 | .0018 | .0019 | .2208 | 26.34 | .0000  |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0011 | .0040  | .61188 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0012 | .0049 | .61120 |
| #2 | -.0011 | .0031 | .61257 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2906.2 | 64610. | 3133.4   | 727.90 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2905.7 | 64394. | 3146.5 | 728.38 |
| #2 | 2906.7 | 64826. | 3120.3 | 727.42 |

Sample Name: K1004488-002      Acquired: 5/11/2010 14:13:51      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|       |        |         |        |        |        |        |         |        |
|-------|--------|---------|--------|--------|--------|--------|---------|--------|
| Elem  | Al1670 | Al3944  | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496  | Cd2144 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg   | .0065  | F .0020 | -.0033 | .0022  | .0821  | .00001 | F .0065 | .0000  |

|    |       |       |        |       |       |         |       |       |
|----|-------|-------|--------|-------|-------|---------|-------|-------|
| #1 | .0065 | .0027 | -.0045 | .0020 | .0821 | .00004  | .0063 | .0000 |
| #2 | .0066 | .0013 | -.0021 | .0024 | .0821 | -.00001 | .0067 | .0000 |

|       |        |        |         |          |        |        |        |        |
|-------|--------|--------|---------|----------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677   | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0000  | .0001  | F 23.91 | F -.0001 | -.0003 | -.0006 | -.0008 | 1.367  |

|    |       |       |       |        |        |        |        |       |
|----|-------|-------|-------|--------|--------|--------|--------|-------|
| #1 | .0001 | .0001 | 23.95 | -.0004 | -.0002 | -.0005 | -.0004 | 1.356 |
| #2 | .0000 | .0001 | 23.86 | .0003  | -.0005 | -.0008 | -.0012 | 1.377 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0012  | F 13.15 | .2688  | .0008  | -.0243 | 4.199  | .0013  | .0001  |

|    |       |       |       |       |        |       |       |        |
|----|-------|-------|-------|-------|--------|-------|-------|--------|
| #1 | .0012 | 13.08 | .2689 | .0010 | -.0243 | 4.168 | .0018 | -.0002 |
| #2 | .0013 | 13.21 | .2686 | .0007 | -.0243 | 4.231 | .0009 | .0005  |

|       |         |        |        |         |         |        |        |        |
|-------|---------|--------|--------|---------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 12.50 | -.0006 | -.0001 | F .0038 | F .0042 | .4206  | 45.63  | .0005  |

|    |       |        |        |       |       |       |       |       |
|----|-------|--------|--------|-------|-------|-------|-------|-------|
| #1 | 12.44 | -.0006 | .0001  | .0038 | .0042 | .4180 | 45.40 | .0006 |
| #2 | 12.57 | -.0006 | -.0003 | .0038 | .0042 | .4233 | 45.85 | .0005 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0004 | .0060  | .11776 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0003 | .0082 | .11788 |
| #2 | -.0006 | .0038 | .11764 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2960.8 | 65191. | 3122.7   | 759.52 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2973.8 | 64847. | 3104.0 | 764.48 |
| #2 | 2947.8 | 65536. | 3141.4 | 754.56 |

Sample Name: K1004502-005      Acquired: 5/11/2010 14:17:14      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0360  | .0280  | -.0072 | -.0006 | .0077  | .00004 | .0530  | .0003  |

|    |       |       |        |        |       |        |       |       |
|----|-------|-------|--------|--------|-------|--------|-------|-------|
| #1 | .0358 | .0277 | -.0058 | -.0006 | .0075 | .00004 | .0527 | .0003 |
| #2 | .0362 | .0284 | -.0086 | -.0007 | .0078 | .00004 | .0533 | .0003 |

|       |        |        |         |         |        |        |        |        |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158  | Cr2677  | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0002  | .0003  | F 249.2 | F .0005 | .0032  | .0205  | .0208  | .6043  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0002 | .0003 | 250.2 | .0005 | .0032 | .0202 | .0217 | .6147 |
| #2 | .0002 | .0003 | 248.3 | .0005 | .0032 | .0207 | .0198 | .5939 |

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0036  | 5.595  | .0283  | .1631  | -.0100 | F 52.59 | -.0016 | .0003  |

|    |       |       |       |       |        |       |        |        |
|----|-------|-------|-------|-------|--------|-------|--------|--------|
| #1 | .0037 | 5.612 | .0286 | .1622 | -.0101 | 52.67 | -.0033 | -.0002 |
| #2 | .0034 | 5.577 | .0281 | .1640 | -.0098 | 52.51 | .0001  | .0007  |

|       |         |        |        |        |         |        |        |        |
|-------|---------|--------|--------|--------|---------|--------|--------|--------|
| Elem  | Na5895  | Sn1899 | V_2924 | Zn2062 | Zn2138  | P_2149 | Si2516 | Ti3361 |
| Units | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg   | F 349.7 | -.0003 | .0000  | .0400  | F .0383 | .5022  | 25.88  | -.0010 |

|    |       |        |        |       |       |       |       |        |
|----|-------|--------|--------|-------|-------|-------|-------|--------|
| #1 | 346.7 | .0003  | .0002  | .0397 | .0383 | .4993 | 25.84 | -.0008 |
| #2 | 352.8 | -.0009 | -.0002 | .0403 | .0384 | .5050 | 25.92 | -.0011 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0022 | .0172  | .48048 |

|    |        |       |        |
|----|--------|-------|--------|
| #1 | -.0033 | .0151 | .48221 |
| #2 | -.0010 | .0193 | .47874 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2809.3 | 62172. | 3123.5   | 684.44 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2824.6 | 61947. | 3121.4 | 687.14 |
| #2 | 2793.9 | 62397. | 3125.5 | 681.75 |



Sample Name: K1004300-MB      Acquired: 5/11/2010 14:21:29      Type: Unk

Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000

User: admin      :      :      :

Comment: 051110B

|       |        |        |        |        |        |         |        |        |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem  | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg   | .0019  | .0035  | -.0031 | -.0014 | -.0001 | -.00017 | .0027  | -.0001 |

|    |       |       |        |        |        |         |       |        |
|----|-------|-------|--------|--------|--------|---------|-------|--------|
| #1 | .0020 | .0058 | -.0009 | -.0035 | -.0003 | -.00021 | .0021 | -.0001 |
| #2 | .0019 | .0012 | -.0052 | .0006  | .0001  | -.00014 | .0033 | -.0001 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0001  | .0003  | .0362  | .0009  | -.0002 | .0000  | .0001  | .0048  |

|    |       |       |       |       |        |        |       |       |
|----|-------|-------|-------|-------|--------|--------|-------|-------|
| #1 | .0001 | .0003 | .0437 | .0009 | -.0002 | -.0003 | .0001 | .0045 |
| #2 | .0000 | .0002 | .0286 | .0009 | -.0002 | .0004  | .0001 | .0050 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Pb2203 | Mg2852 | Mn2576 | Mo2020 | Ni2216 | K_7664 | Se1960 | Ag3280 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | -.0002 | .0033  | .0000  | -.0002 | .0001  | -.0037 | .0026  | .0002  |

|    |        |       |       |        |       |        |       |        |
|----|--------|-------|-------|--------|-------|--------|-------|--------|
| #1 | .0008  | .0005 | .0001 | .0000  | .0001 | .0064  | .0023 | .0011  |
| #2 | -.0013 | .0061 | .0000 | -.0003 | .0000 | -.0138 | .0030 | -.0008 |

|       |        |        |        |         |         |        |         |        |
|-------|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem  | Na5895 | Sn1899 | V_2924 | Zn2062  | Zn2138  | P_2149 | Si2516  | Ti3361 |
| Units | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg   | .0885  | .0005  | -.0002 | F .0058 | F .0064 | -.0021 | F .2720 | -.0008 |

|    |       |       |        |       |       |        |       |        |
|----|-------|-------|--------|-------|-------|--------|-------|--------|
| #1 | .0923 | .0006 | .0002  | .0058 | .0064 | -.0017 | .2859 | -.0009 |
| #2 | .0848 | .0003 | -.0006 | .0059 | .0063 | -.0024 | .2582 | -.0006 |

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | Tl1908 | Li6707 | Sr4077 |
| Units | ppm    | ppm    | ppm    |
| Avg   | -.0027 | -.0008 | .00010 |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | -.0025 | -.0002 | .00015 |
| #2 | -.0028 | -.0014 | .00005 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2916.0 | 65354. | 3072.9   | 765.11 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2921.8 | 65269. | 3070.6 | 766.24 |
| #2 | 2910.3 | 65438. | 3075.2 | 763.98 |

Sample Name: LCS      Acquired: 5/11/2010 14:24:36      Type: Unk  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | 3.285  | .8860  | 1.813  | 3.843  | .08408 | 1.829  | .0879  | .0886  |

|    |       |       |       |       |        |       |       |       |
|----|-------|-------|-------|-------|--------|-------|-------|-------|
| #1 | 3.290 | .8859 | 1.809 | 3.842 | .08390 | 1.830 | .0873 | .0883 |
| #2 | 3.280 | .8862 | 1.816 | 3.843 | .08427 | 1.828 | .0886 | .0890 |

|       |        |         |        |        |        |        |        |        |
|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem  | Cd2288 | Ca3158  | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 | Pb2203 |
| Units | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | .0945  | F .0112 | .3758  | .9099  | .4472  | .4644  | 1.902  | .8904  |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0944 | .0063 | .3760 | .9058 | .4445 | .4649 | 1.903 | .8847 |
| #2 | .0946 | .0160 | .3756 | .9139 | .4499 | .4638 | 1.901 | .8961 |

|       |         |        |        |        |         |        |        |         |
|-------|---------|--------|--------|--------|---------|--------|--------|---------|
| Elem  | Mg2852  | Mn2576 | Mo2020 | Ni2216 | K_7664  | Se1960 | Ag3280 | Na5895  |
| Units | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg   | F .0041 | .9257  | 1.974  | .9159  | F .0384 | 1.605  | .0894  | F .0909 |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| #1 | .0010 | .9247 | 1.964 | .9110 | .0413 | 1.605 | .0899 | .0982 |
| #2 | .0072 | .9268 | 1.984 | .9207 | .0354 | 1.605 | .0888 | .0837 |

|       |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem  | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Tl1908 |
| Units | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg   | -.0005 | .9462  | .8505  | .8531  | -.0088 | .7722  | -.0011 | 1.841  |

|    |        |       |       |       |        |       |        |       |
|----|--------|-------|-------|-------|--------|-------|--------|-------|
| #1 | -.0011 | .9470 | .8454 | .8530 | -.0077 | .8057 | -.0014 | 1.831 |
| #2 | .0000  | .9454 | .8556 | .8531 | -.0099 | .7388 | -.0009 | 1.850 |

|       |        |        |
|-------|--------|--------|
| Elem  | Li6707 | Sr4077 |
| Units | ppm    | ppm    |
| Avg   | .0006  | .00041 |

|    |        |        |
|----|--------|--------|
| #1 | -.0002 | .00033 |
| #2 | .0014  | .00049 |

|           |        |        |          |        |
|-----------|--------|--------|----------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2919.5 | 65170. | 3036.8   | 770.63 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2930.4 | 65103. | 3044.0 | 774.36 |
| #2 | 2908.5 | 65238. | 3029.7 | 766.91 |

Sample Name: CCVA4      Acquired: 5/11/2010 14:27:28      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem        | Al1670   | Al3944 | Sb2068   | As1890 | Ba4554 | Be2348   | B_2496   | Cd2144   | Cd2265   |
|-------------|----------|--------|----------|--------|--------|----------|----------|----------|----------|
| Units       | ppm      | ppm    | ppm      | ppm    | ppm    | ppm      | ppm      | ppm      | ppm      |
| Avg         | .2528    | .2349  | .2488    | .2561  | .2507  | .25166   | .2567    | .2475    | .2483    |
| Stddev      | .0001    | .0011  | .0002    | .0008  | .0008  | .00072   | .0020    | .0016    | .0012    |
| %RSD        | .0560    | .4741  | .0662    | .3042  | .3091  | .28448   | .7613    | .6661    | .4768    |
| #1          | .2527    | .2356  | .2490    | .2556  | .2502  | .25115   | .2581    | .2464    | .2475    |
| #2          | .2529    | .2341  | .2487    | .2567  | .2512  | .25216   | .2553    | .2487    | .2492    |
| Check ?     | Chk Pass | None   | Chk Pass | None   | None   | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value Range |          |        |          |        |        |          |          |          |          |

| Elem        | Cd2288   | Ca3158 | Cr2677   | Co2307   | Cu2247   | Cu3273   | Fe2599 | Pb2203   | Mg2790 |
|-------------|----------|--------|----------|----------|----------|----------|--------|----------|--------|
| Units       | ppm      | ppm    | ppm      | ppm      | ppm      | ppm      | ppm    | ppm      | ppm    |
| Avg         | .2555    | .2500  | .2492    | .2442    | .2471    | .2515    | .2551  | .2430    | .2523  |
| Stddev      | .0001    | .0048  | .0003    | .0015    | .0013    | .0002    | .0040  | .0025    | .0149  |
| %RSD        | .0337    | 1.939  | .1248    | .6024    | .5140    | .0661    | 1.584  | 1.020    | 5.915  |
| #1          | .2556    | .2465  | .2490    | .2431    | .2462    | .2516    | .2580  | .2412    | .2628  |
| #2          | .2554    | .2534  | .2495    | .2452    | .2480    | .2513    | .2523  | .2447    | .2417  |
| Check ?     | Chk Pass | None   | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None   | Chk Pass | None   |
| Value Range |          |        |          |          |          |          |        |          |        |

| Elem        | Mg2852 | Mn2576   | Mn2605   | Mo2020   | Ni2216   | K_7664 | Se1960   | Ag3280   | Na5895 |
|-------------|--------|----------|----------|----------|----------|--------|----------|----------|--------|
| Units       | ppm    | ppm      | ppm      | ppm      | ppm      | ppm    | ppm      | ppm      | ppm    |
| Avg         | .2512  | .2515    | .2360    | .2507    | .2495    | 2.524  | .2532    | .2563    | .2624  |
| Stddev      | .0020  | .0005    | .0013    | .0003    | .0009    | .051   | .0020    | .0003    | .0101  |
| %RSD        | .8052  | .1910    | .5348    | .1142    | .3770    | 2.009  | .7798    | .1021    | 3.854  |
| #1          | .2498  | .2519    | .2369    | .2505    | .2488    | 2.560  | .2518    | .2561    | .2553  |
| #2          | .2527  | .2512    | .2351    | .2509    | .2501    | 2.489  | .2546    | .2565    | .2696  |
| Check ?     | None   | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None   | Chk Pass | Chk Pass | None   |
| Value Range |        |          |          |          |          |        |          |          |        |

Sample Name: CCVA4      Acquired: 5/11/2010 14:27:28      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem   | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 | Si2516 | Ti3361 | Ti1908 | Li6707 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .2474  | .2516  | .2401  | .2564  | -.0045 | .1870  | .2466  | .2407  | -.0001 |
| Stddev | .0020  | .0007  | .0025  | .0004  | .0038  | .0077  | .0004  | .0021  | .0017  |
| %RSD   | .8195  | .2857  | 1.032  | .1415  | 83.99  | 4.115  | .1756  | .8817  | 2333.  |
| #1     | .2460  | .2521  | .2383  | .2561  | -.0018 | .1815  | .2463  | .2392  | .0011  |
| #2     | .2489  | .2511  | .2418  | .2566  | -.0072 | .1924  | .2469  | .2422  | -.0013 |

| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | None | Chk Pass | Chk Pass | None |
|---------|----------|----------|----------|----------|------|------|----------|----------|------|
| Value   |          |          |          |          |      |      |          |          |      |
| Range   |          |          |          |          |      |      |          |          |      |

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | .00008 |
| Stddev | .00022 |
| %RSD   | 269.15 |

|    |         |
|----|---------|
| #1 | -.00007 |
| #2 | .00024  |

| Check ? | None |
|---------|------|
| Value   |      |
| Range   |      |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 3033.6 | 67191. | 3145.9   | 799.56 |
| Stddev    | 6.3    | 46.    | 1.8      | 4.88   |
| %RSD      | .20683 | .06911 | .05696   | .61000 |
| #1        | 3038.0 | 67158. | 3147.1   | 803.01 |
| #2        | 3029.1 | 67224. | 3144.6   | 796.11 |

Sample Name: CCVB4      Acquired: 5/11/2010 14:30:22      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|         |        |          |         |          |          |        |        |        |        |
|---------|--------|----------|---------|----------|----------|--------|--------|--------|--------|
| Elem    | Al1670 | Al3944   | Sb2068  | As1890   | Ba4554   | Be2348 | B_2496 | Cd2144 | Cd2265 |
| Units   | ppm    | ppm      | ppm     | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg     | 7.389  | 9.772    | -0.0049 | 1.011    | 10.08    | .00006 | .0047  | .0001  | .0001  |
| Stddev  | .012   | .051     | .0003   | .011     | .22      | .00001 | .0006  | .0001  | .0001  |
| %RSD    | .1568  | .5252    | 6.202   | 1.087    | 2.192    | 20.826 | 12.20  | 98.42  | 147.2  |
| #1      | 7.398  | 9.735    | -0.0051 | 1.003    | 9.921    | .00005 | .0043  | .0001  | .0000  |
| #2      | 7.381  | 9.808    | -0.0047 | 1.019    | 10.23    | .00007 | .0051  | .0000  | .0002  |
| Check ? | None   | Chk Pass | None    | Chk Pass | Chk Pass | None   | None   | None   | None   |
| Value   |        |          |         |          |          |        |        |        |        |
| Range   |        |          |         |          |          |        |        |        |        |

|         |        |          |        |        |         |         |          |        |          |
|---------|--------|----------|--------|--------|---------|---------|----------|--------|----------|
| Elem    | Cd2288 | Ca3158   | Cr2677 | Co2307 | Cu2247  | Cu3273  | Fe2599   | Pb2203 | Mg2790   |
| Units   | ppm    | ppm      | ppm    | ppm    | ppm     | ppm     | ppm      | ppm    | ppm      |
| Avg     | .0050  | 10.03    | .0006  | .0001  | -0.0008 | -0.0010 | 10.09    | .0004  | 9.953    |
| Stddev  | .0001  | .06      | .0000  | .0002  | .0001   | .0014   | .10      | .0000  | .085     |
| %RSD    | 2.960  | .6144    | .1818  | 191.6  | 9.747   | 148.4   | .9568    | 6.061  | .8527    |
| #1      | .0051  | 9.985    | .0006  | .0000  | -0.0009 | -0.0020 | 10.02    | .0005  | 9.893    |
| #2      | .0049  | 10.07    | .0006  | .0002  | -0.0008 | .0000   | 10.15    | .0004  | 10.01    |
| Check ? | None   | Chk Pass | None   | None   | None    | None    | Chk Pass | None   | Chk Pass |
| Value   |        |          |        |        |         |         |          |        |          |
| Range   |        |          |        |        |         |         |          |        |          |

|         |          |        |        |        |         |          |        |        |          |
|---------|----------|--------|--------|--------|---------|----------|--------|--------|----------|
| Elem    | Mg2852   | Mn2576 | Mn2605 | Mo2020 | Ni2216  | K_7664   | Se1960 | Ag3280 | Na5895   |
| Units   | ppm      | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    | ppm    | ppm      |
| Avg     | 10.02    | .0003  | .0014  | .0010  | -0.0052 | 10.16    | .0020  | .0007  | 10.05    |
| Stddev  | .01      | .0000  | .0007  | .0001  | .0002   | .08      | .0011  | .0001  | .02      |
| %RSD    | .1073    | 5.783  | 52.27  | 6.830  | 3.808   | .7906    | 54.42  | 11.49  | .1906    |
| #1      | 10.02    | .0003  | .0009  | .0009  | -0.0051 | 10.22    | .0012  | .0006  | 10.07    |
| #2      | 10.01    | .0004  | .0019  | .0010  | -0.0053 | 10.11    | .0027  | .0007  | 10.04    |
| Check ? | Chk Pass | None   | None   | None   | None    | Chk Pass | None   | None   | Chk Pass |
| Value   |          |        |        |        |         |          |        |        |          |
| Range   |          |        |        |        |         |          |        |        |          |



Sample Name: CCVB4      Acquired: 5/11/2010 14:30:22      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

| Elem    | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149   | Si2516   | Ti3361 | Ti1908 | Li6707   |
|---------|--------|--------|--------|--------|----------|----------|--------|--------|----------|
| Units   | ppm    | ppm    | ppm    | ppm    | ppm      | ppm      | ppm    | ppm    | ppm      |
| Avg     | -.0001 | .0001  | .0002  | .0004  | 10.05    | 9.781    | .0000  | .0006  | 1.006    |
| Stddev  | .0002  | .0003  | .0002  | .0000  | .03      | .036     | .0000  | .0027  | .004     |
| %RSD    | 166.7  | 330.0  | 126.7  | .9636  | .3087    | .3640    | 377.1  | 466.4  | .4457    |
| #1      | .0000  | .0003  | .0000  | .0004  | 10.03    | 9.806    | .0000  | .0025  | 1.009    |
| #2      | -.0003 | -.0001 | .0003  | .0004  | 10.07    | 9.756    | .0000  | -.0013 | 1.003    |
| Check ? | None   | None   | None   | None   | Chk Pass | Chk Pass | None   | None   | Chk Pass |
| Value   |        |        |        |        |          |          |        |        |          |
| Range   |        |        |        |        |          |          |        |        |          |

| Elem   | Sr4077 |
|--------|--------|
| Units  | ppm    |
| Avg    | 1.0150 |
| Stddev | .0060  |
| %RSD   | .59045 |
| #1     | 1.0108 |
| #2     | 1.0193 |

Check ?      Chk Pass  
 Value  
 Range

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 2999.8 | 65978. | 3122.8   | 770.55 |
| Stddev    | 4.9    | 148.   | 29.5     | .69    |
| %RSD      | .16375 | .22405 | .94505   | .08916 |
| #1        | 2996.3 | 65873. | 3143.7   | 770.07 |
| #2        | 3003.3 | 66082. | 3101.9   | 771.04 |

Sample Name: CCB4      Acquired: 5/11/2010 14:33:47      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :      :  
 Comment: 051110B

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Al1670 | Al3944 | Sb2068 | As1890 | Ba4554 | Be2348  | B_2496 | Cd2144 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .0004  | .0014  | -.0048 | .0004  | .0003  | -.00001 | .0016  | .0000  |
| Stddev | .0001  | .0026  | .0005  | .0005  | .0001  | .00001  | .0005  | .000   |
| %RSD   | 14.28  | 192.0  | 9.632  | 132.1  | 21.81  | 57.670  | 33.37  | 111.4  |

|    |       |        |        |       |       |         |       |       |
|----|-------|--------|--------|-------|-------|---------|-------|-------|
| #1 | .0005 | .0033  | -.0045 | .0007 | .0004 | -.00001 | .0012 | .0000 |
| #2 | .0004 | -.0005 | -.0052 | .0000 | .0003 | -.00002 | .0019 | .0000 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cd2288 | Ca3158 | Cr2677 | Co2307 | Cu2247 | Cu3273 | Fe2599 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .0001  | .0000  | .0009  | .0002  | -.0002 | -.0004 | -.0010 | .0055  |
| Stddev | .0000  | .000   | .0062  | .0001  | .0001  | .0006  | .0007  | .0039  |
| %RSD   | 37.96  | 1003.  | 659.2  | 23.60  | 49.00  | 145.0  | 74.62  | 70.01  |

|    |       |        |        |       |        |        |        |       |
|----|-------|--------|--------|-------|--------|--------|--------|-------|
| #1 | .0001 | -.0001 | -.0034 | .0003 | -.0002 | .0000  | -.0005 | .0028 |
| #2 | .0001 | .0001  | .0053  | .0002 | -.0001 | -.0008 | -.0015 | .0082 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Pb2203 | Mg2790 | Mg2852 | Mn2576 | Mn2605 | Mo2020 | Ni2216 | K_7664 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0015 | .0289  | -.0015 | -.0001 | -.0003 | -.0001 | .0001  | -.0181 |
| Stddev | .0008  | .0251  | .0019  | .0000  | .0008  | .0001  | .0000  | .0303  |
| %RSD   | 51.21  | 86.63  | 129.5  | 43.73  | 240.1  | 64.29  | 46.10  | 167.3  |

|    |        |       |        |        |        |        |       |        |
|----|--------|-------|--------|--------|--------|--------|-------|--------|
| #1 | -.0020 | .0112 | -.0029 | .0000  | .0002  | -.0001 | .0001 | .0033  |
| #2 | -.0010 | .0467 | -.0001 | -.0001 | -.0009 | -.0002 | .0000 | -.0396 |

|            |          |      |          |          |          |          |          |          |
|------------|----------|------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |      |          |          |          |          |          |          |
| Low Limit  |          |      |          |          |          |          |          |          |

Sample Name: CCB4      Acquired: 5/11/2010 14:33:47      Type: QC  
 Method: 2010a2007(v18)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      :      :  
 Comment: 051110B

| Elem   | Se1960 | Ag3280 | Na5895 | Sn1899 | V_2924 | Zn2062 | Zn2138 | P_2149 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.0017 | .0003  | .0142  | -.0002 | -.0006 | .0000  | -.0001 | .0019  |
| Stddev | .0030  | .0002  | .0030  | .0001  | .0001  | .000   | .0001  | .0009  |
| %RSD   | 176.3  | 79.42  | 21.41  | 70.06  | 16.94  | 262.9  | 46.42  | 47.87  |

|    |        |       |       |        |        |        |        |       |
|----|--------|-------|-------|--------|--------|--------|--------|-------|
| #1 | -.0039 | .0004 | .0163 | -.0002 | -.0007 | -.0001 | -.0002 | .0012 |
| #2 | .0004  | .0001 | .0120 | -.0001 | -.0005 | .0000  | -.0001 | .0025 |

|            |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |          |          |

| Elem   | Si2516 | Ti3361 | Ti1908 | Li6707 | Sr4077  |
|--------|--------|--------|--------|--------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .0352  | -.0002 | .0006  | -.0003 | -.00001 |
| Stddev | .0166  | .0001  | .0001  | .0005  | .00004  |
| %RSD   | 47.14  | 73.36  | 13.92  | 184.9  | 491.79  |

|    |       |        |       |        |         |
|----|-------|--------|-------|--------|---------|
| #1 | .0235 | -.0003 | .0007 | .0001  | -.00004 |
| #2 | .0469 | -.0001 | .0006 | -.0006 | .00002  |

|            |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |

| Int. Std. | Y_2243 | Y_3600 | Y_3600-2 | In2306 |
|-----------|--------|--------|----------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S    | Cts/S  |
| Avg       | 3035.5 | 67110. | 3095.5   | 789.10 |
| Stddev    | 11.1   | 84.    | 26.4     | 1.03   |
| %RSD      | .36573 | .12498 | .85432   | .13102 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 3043.4 | 67170. | 3076.8 | 789.83 |
| #2 | 3027.7 | 67051. | 3114.2 | 788.36 |

Service Request K1004467 \_\_\_\_\_  
 Calibration \_\_\_\_\_ 051210B \_\_\_\_\_  
 QC in calibration 051210B \_\_\_\_\_  
 QC Service Request # K104467 \_\_\_\_\_  
 STARLIMS Batch # 200241 \_\_\_\_\_

## ICP-MS Data Review Form

|  | Yes           | No            | NA            |
|--|---------------|---------------|---------------|
| 1. Appropriate standardization completed       | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 2. ICV within 10 % of true value               | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 3. CCV's in control                            | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 4. CCB's and/or ICB's below MRL                | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 5. Method blank below MRL                      | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 6. LCS in control                              | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 7. Spike and duplicate in control              | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 8. All analytes within instrument linear range | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 9. Adequate rinse out time allowed             | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 10. Internal standards in control              | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 11. Interferences checked                      | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 12. Se over MRL                                | <u>      </u> | <u>  X  </u>  | <u>      </u> |
| 13. CRA run                                    | <u>  X  </u>  | <u>      </u> | <u>      </u> |
| 14. ICSA and ICSAB in control                  | <u>      </u> | <u>      </u> | <u>  X  </u>  |
| 15. Serial dilution run                        | <u>      </u> | <u>      </u> | <u>  X  </u>  |
| 16. Post spike in control                      | <u>      </u> | <u>      </u> | <u>  X  </u>  |

Comments: Report Al & Mn/6010B.

Primary Review by       J        
 Secondary Review by       JDB      

Date   5/12/10    
 Date   5/13/10  

R:\icp\misc\data review forms\PQ ExCell review form

## Sample List

| Num | Label              | Type                 | Weight | Volume | Dilution | Rack | Row | Column | Height |
|-----|--------------------|----------------------|--------|--------|----------|------|-----|--------|--------|
| 1   | Cal. Blk           | Blank                | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 2   | Cal. Stn           | Fully Quant Standard | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 2      | 145    |
| 3   | ICV1               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 3      | 145    |
| 4   | CCV1               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 2      | 145    |
| 5   | ICB1               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 6   | CCB1               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 7   | WATER CRA          | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 4      | 145    |
| 8   | K1003436-049 1/100 | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 8      | 145    |
| 9   | K1004641-001 1/20  | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 2      | 145    |
| 10  | K1004641-MB        | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 3      | 145    |
| 11  | K1004642-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 4      | 145    |
| 12  | K1004642-001D      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 5      | 145    |
| 13  | K1004642-001S      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 6      | 145    |
| 14  | LCSW K1004642      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 4   | 7      | 145    |
| 15  | CCV2               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 2      | 145    |
| 16  | CCB2               | Unknown              | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 17  | K1004467-MB        | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 1      | 145    |
| 18  | K1004467-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 3      | 145    |
| 19  | K1004467-001D      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 4      | 145    |
| 20  | K1004467-001S      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 5      | 145    |
| 21  | LCSW K1004467      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 2      | 145    |
| 22  | K1004496-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 6      | 145    |
| 23  | K1004499-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 7      | 145    |
| 24  | K1004502-005       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 8      | 145    |
| 25  | K1004508-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 9      | 145    |
| 26  | CCV3               | QC Sample            | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 2      | 145    |
| 27  | CCB3               | QC Sample            | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 28  | K1004589-001 1/2   | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 10     | 145    |
| 29  | K1004589-002 1/2   | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 11     | 145    |
| 30  | K1004589-003 1/2   | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 1   | 12     | 145    |
| 31  | K1004589-004       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 1      | 145    |
| 32  | K1004171-MB        | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 2      | 145    |
| 33  | LCSW K1004171      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 3      | 145    |
| 34  | K1004171-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 4      | 145    |
| 35  | K1004171-001D      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 5      | 145    |
| 36  | K1004171-001S      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 6      | 145    |
| 37  | CCV4               | QC Sample            | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 2      | 145    |
| 38  | CCB4               | QC Sample            | 0 kg   | 0 ml   | 1.00     | 0    | 1   | 1      | 145    |
| 39  | K1004047-MB        | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 7      | 145    |
| 40  | LCSW K1004047      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 8      | 145    |
| 41  | K1004047-001       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 9      | 145    |
| 42  | K1004047-001D      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 10     | 145    |
| 43  | K1004047-001S      | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 11     | 145    |
| 44  | K1004047-002       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 2   | 12     | 145    |
| 45  | K1004047-003       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 3   | 1      | 145    |
| 46  | K1004047-004       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 3   | 2      | 145    |
| 47  | K1004047-005       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 3   | 3      | 145    |
| 48  | K1004047-006       | Unknown              | 0 kg   | 0 ml   | 1.00     | 1    | 3   | 4      | 145    |



|    |               |           |      |      |      |   |   |    |     |
|----|---------------|-----------|------|------|------|---|---|----|-----|
| 49 | CCV5          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 2  | 145 |
| 50 | CCB5          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 1  | 145 |
| 51 | K1004047-007  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 5  | 145 |
| 52 | K1004047-008  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 6  | 145 |
| 53 | K1004047-009  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 7  | 145 |
| 54 | K1004047-010  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 8  | 145 |
| 55 | K1004047-011  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 9  | 145 |
| 56 | K1004047-012  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 10 | 145 |
| 57 | K1004047-013  | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 11 | 145 |
| 58 | K1004047-013D | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 3 | 12 | 145 |
| 59 | K1004047-013S | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 4 | 1  | 145 |
| 60 | CCV6          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 2  | 145 |
| 61 | CCB6          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 1  | 145 |
| 62 | 250 ml #1     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 4 | 9  | 145 |
| 63 | 250 ml #2     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 4 | 10 | 145 |
| 64 | 250 ml #3     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 4 | 11 | 145 |
| 65 | 250 ml #4     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 4 | 12 | 145 |
| 66 | 250 ml #5     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 1  | 145 |
| 67 | 250 ml #6     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 2  | 145 |
| 68 | 250 ml #7     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 3  | 145 |
| 69 | 500 ml #1     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 4  | 145 |
| 70 | 500 ml #2     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 5  | 145 |
| 71 | 500 ml #3     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 6  | 145 |
| 72 | CCV7          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 2  | 145 |
| 73 | CCB7          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 1  | 145 |
| 74 | 500 ml #4     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 7  | 145 |
| 75 | 500 ml #5     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 8  | 145 |
| 76 | 500 ml #6     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 9  | 145 |
| 77 | 500 ml #7     | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 10 | 145 |
| 78 | 1000 ml #1    | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 11 | 145 |
| 79 | 1000 ml #2    | Unknown   | 0 kg | 0 ml | 1.00 | 1 | 5 | 12 | 145 |
| 80 | 1000 ml #3    | Unknown   | 0 kg | 0 ml | 1.00 | 2 | 1 | 1  | 145 |
| 81 | 1000 ml #4    | Unknown   | 0 kg | 0 ml | 1.00 | 2 | 1 | 2  | 145 |
| 82 | 1000 ml #5    | Unknown   | 0 kg | 0 ml | 1.00 | 2 | 1 | 3  | 145 |
| 83 | 1000 ml #6    | Unknown   | 0 kg | 0 ml | 1.00 | 2 | 1 | 4  | 145 |
| 84 | CCV8          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 2  | 145 |
| 85 | CCB8          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 1  | 145 |
| 86 | 1000 ml #7    | Unknown   | 0 kg | 0 ml | 1.00 | 2 | 1 | 5  | 145 |
| 87 | CCV9          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 2  | 145 |
| 88 | CCB9          | QC Sample | 0 kg | 0 ml | 1.00 | 0 | 1 | 1  | 145 |

**Instrument Setup - Configurations**

Configuration Name - acqmet11  
 Description - PQExcell CCT Sim Default  
 Date - 9:59:10 5/12/10  
 Maximum Uptake Time - 0  
 Maximum Washout Time - 0  
 S-Option Pump Running - No  
 Plasma Screen Forward - No  
 Makeup Gas On - No  
 Use CCT - No  
 Use Accessory Gas - No

| Setting        | Value    |
|----------------|----------|
| Extraction     | -700.00  |
| Lens1          | 5.00     |
| Lens2          | -75.00   |
| Lens3          | -25.00   |
| Pole Bias      | 5.00     |
| Sampling Depth | 400.00   |
| Horizontal     | 10.00    |
| Vertical       | 85.00    |
| Cool           | 13.00    |
| Auxiliary      | 0.80     |
| Nebuliser      | 0.82     |
| Forward power  | 1,350.00 |
| HT1 Voltage    | 1,900.00 |
| HT2 Voltage    | 2,600.00 |
| D1             | -40.00   |
| Focus          | 8.00     |

Configuration Name - acqmet11  
 Description - PQExcell CCT Sim Default  
 Date - 9:59:10 5/12/10  
 Maximum Uptake Time - 0  
 Maximum Washout Time - 0  
 S-Option Pump Running - No  
 Plasma Screen Forward - No  
 Makeup Gas On - No  
 Use CCT - No  
 Use Accessory Gas - No

| Setting        | Value   |
|----------------|---------|
| Extraction     | -700.00 |
| Lens1          | 5.00    |
| Lens2          | -75.00  |
| Lens3          | -25.00  |
| Pole Bias      | 5.00    |
| Sampling Depth | 400.00  |
| Horizontal     | 10.00   |
| Vertical       | 85.00   |
| Cool           | 13.00   |
| Auxiliary      | 0.80    |


| Mass    | Mass DAC | Peak Width (AMU) | Error (AMU) | Include | Masses in<br>Tune Solution |
|---------|----------|------------------|-------------|---------|----------------------------|
| 6.015   | 1293     | 0.766            | -0.012      | TRUE    |                            |
| 7.016   | 1547     | 0.715            | -0.015      | TRUE    | Li-7                       |
| 9.012   | 2060     | 0.766            | 0.005       | TRUE    | Be-9                       |
| 23.985  | 5874     | 0.715            | 0.021       | TRUE    | Mg-24                      |
| 24.986  | 6134     | 0.715            | 0.042       | TRUE    | Co-59                      |
| 26.982  | 6628     | 0.715            | -0.013      | TRUE    | In-115                     |
| 43.956  | 10957    | 0.766            | 0.022       | TRUE    | Ce-140                     |
| 51.94   | 12985    | 0.766            | 0.004       | TRUE    | Pb-208                     |
| 53.949  | 13492    | 0.766            | -0.013      | TRUE    | Bi-209                     |
| 55.935  | 13999    | 0.766            | -0.007      | TRUE    | U-238                      |
| 56.935  | 14259    | 0.766            | 0.013       | TRUE    |                            |
| 57.934  | 14513    | 0.715            | 0.012       | TRUE    |                            |
| 58.933  | 14753    | 0.766            | -0.044      | TRUE    |                            |
| 75.92   | 19082    | 0.766            | -0.028      | TRUE    |                            |
| 112.904 | 28503    | 0.714            | -0.02       | TRUE    |                            |
| 114.904 | 29010    | 0.714            | -0.029      | TRUE    |                            |
| 128.905 | 32591    | 0.663            | 0.026       | TRUE    |                            |
| 131.905 | 33352    | 0.714            | 0.013       | TRUE    |                            |
| 139.905 | 35393    | 0.714            | 0.023       | TRUE    |                            |
| 141.908 | 35900    | 0.714            | 0.01        | TRUE    |                            |
| 155.923 | 39468    | 0.663            | -0.004      | TRUE    |                            |
| 205.974 | 52228    | 0.612            | 0.001       | TRUE    |                            |
| 206.976 | 52488    | 0.612            | 0.019       | TRUE    |                            |
| 207.977 | 52735    | 0.612            | -0.013      | TRUE    |                            |
| 208.98  | 52995    | 0.612            | 0.003       | TRUE    |                            |
| 238.051 | 60405    | 0.612            | -0.013      | TRUE    |                            |

| Excluded in Calib         | Excluded in Results      | S- Calibration Has Edited Standard<br>F- Interference Correction Failed | Multi Element | E- Calibration Edited<br>T- Tripped | Internal Standard | Standard Addition |              |              |
|---------------------------|--------------------------|---|---------------|-------------------------------------|-------------------|-------------------|--------------|--------------|
| Uncorrected ICPS Per Mass |                          |   |               |                                     |                   |                   |              |              |
| Run                       | Label                    | TimeStamp   | 69Ga          | 7Li                                 | 9Be               | 59Co              | 115In        | 208Pb        |
| 1                         | Stability 05-12-2010     | 5/12/2010 10:10:06 A  | (P)1.833      | (P)16473.164                        | (P)3502.596       | (P)19191.718      | (P)32678.513 | (P)15812.081 |
| 2                         | Stability 05-12-2010     | 5/12/2010 10:11:21 A  | (P)1.833      | (P)16223.207                        | (P)3461.420       | (P)18942.551      | (P)32375.153 | (P)15442.680 |
| 3                         | Stability 05-12-2010     | 5/12/2010 10:12:36 A  | (P)0.667      | (P)16624.503                        | (P)3513.599       | (P)19318.389      | (P)32652.626 | (P)15673.928 |
| 4                         | Stability 05-12-2010     | 5/12/2010 10:13:51 A  | (P)0.833      | (P)16098.236                        | (P)3458.585       | (P)19099.094      | (P)32615.370 | (P)15455.857 |
| 5                         | Stability 05-12-2010     | 5/12/2010 10:15:06 A  | (P)0.667      | (P)15878.488                        | (P)3411.407       | (P)18999.126      | (P)32706.744 | (P)15439.342 |
|                           | Mean of Stability 05-12  | 5/12/2010 10:10:06 A  | (P)1.167      | (P)16259.520                        | (P)3469.521       | (P)19110.176      | (P)32605.681 | (P)15564.778 |
|                           | SD of Stability 05-12-20 |   | (P)0.612      | (P)296.384                          | (P)40.618         | (P)150.462        | (P)133.191   | (P)169.984   |
|                           | %RSD of Stability 05     |   | (P)52.489     | (P)1.823                            | (P)1.171          | (P)0.787          | (P)0.408     | (P)1.092     |

| Run | Label                    | TimeStamp            | 209Bi        | 235Am      | 238U         |
|-----|--------------------------|----------------------|--------------|------------|--------------|
| 1   | Stability 05-12-2010     | 5/12/2010 10:10:06 A | (P)25465.347 | (P)0.000   | (P)32690.704 |
| 2   | Stability 05-12-2010     | 5/12/2010 10:11:21 A | (P)24900.189 | (P)0.000   | (P)32324.200 |
| 3   | Stability 05-12-2010     | 5/12/2010 10:12:36 A | (P)25272.009 | (P)0.333   | (P)32565.249 |
| 4   | Stability 05-12-2010     | 5/12/2010 10:13:51 A | (P)24749.762 | (P)0.000   | (P)32152.653 |
| 5   | Stability 05-12-2010     | 5/12/2010 10:15:06 A | (P)24710.858 | (P)0.000   | (P)31895.072 |
|     | Mean of Stability 05-12  | 5/12/2010 10:10:06 A | (P)25019.633 | (P)0.067   | (P)32325.576 |
|     | SD of Stability 05-12-20 |                      | (P)333.464   | (P)0.149   | (P)318.590   |
|     | %RSD of Stability 05     |                      | (P)1.333     | (P)223.607 | (P)0.986     |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | Cal. Blk      |  |         |         | Mean | SD     | %RSD |
|--------------|---------------|--|---------|---------|------|--------|------|
| TimeStamp    | 5/12/10 13:10 |  |         |         |      |        |      |
| Aluminum     | 27            | -0.0033  | -0.0059 | 0.0091  | 0    | 0.008  | 0    |
| Antimony     | 121           | 0.0071   | -0.0048 | -0.0023 | 0    | 0.0063 | 0    |
| Antimony     | 123           | 0.0089   | 0.0012  | -0.0101 | 0    | 0.0095 | 0    |
| Arsenic      | 75            | 0.0453   | -0.0048 | -0.0405 | 0    | 0.0431 | 0    |
| Barium       | 135           | -0.0009  | -0.0003 | 0.0012  | 0    | 0.0011 | 0    |
| Barium       | 137           | -0.0009  | 0.001   | 0       | 0    | 0.001  | 0    |
| Barium       | 138           | -0.0012  | 0.0013  | -0.0001 | 0    | 0.0012 | 0    |
| Beryllium    | 9             | -0.0025  | 0.001   | 0.0015  | 0    | 0.0022 | 0    |
| Cadmium      | 111           | -0.002   | 0.0021  | 0       | 0    | 0.002  | 0    |
| Cadmium      | 114           | 0.0001   | -0.0005 | 0.0004  | 0    | 0.0004 | 0    |
| Chromium     | 52            | 0.0102   | -0.0101 | -0.0002 | 0    | 0.0101 | 0    |
| Chromium     | 53            | -0.05  | 0.0372  | 0.0127  | 0    | 0.0449 | 0    |
| Cobalt       | 59            | -0.0025  | 0.0051  | -0.0027 | 0    | 0.0045 | 0    |
| Copper       | 63            | -0.0013  | 0.0043  | -0.003  | 0    | 0.0038 | 0    |
| Copper       | 65            | 0.0023   | -0.0006 | -0.0017 | 0    | 0.0021 | 0    |
| Lead         | 206           | 0.0011   | 0.0002  | -0.0013 | 0    | 0.0012 | 0    |
| Lead         | 207           | -0.0004  | 0.0043  | -0.0039 | 0    | 0.0041 | 0    |
| Lead         | 208           | 0.0008   | 0.0012  | -0.002  | 0    | 0.0018 | 0    |
| Manganese    | 55            | 0.0015   | -0.0006 | -0.0009 | 0    | 0.0013 | 0    |
| Molybdenum   | 95            | 0.0038   | -0.002  | -0.0018 | 0    | 0.0033 | 0    |
| Molybdenum   | 97            | -0.0004  | -0.0014 | 0.0019  | 0    | 0.0017 | 0    |
| Molybdenum   | 98            | 0.0046   | -0.0016 | -0.003  | 0    | 0.0041 | 0    |
| Nickel       | 60            | -0.0082  | 0.0074  | 0.0008  | 0    | 0.0079 | 0    |
| Nickel       | 62            | 0.0723   | -0.0131 | -0.0593 | 0    | 0.0668 | 0    |
| Selenium     | 77            | -0.0114  | 0.0148  | -0.0034 | 0    | 0.0134 | 0    |
| Selenium     | 78            | -0.0995  | 0.0516  | 0.048   | 0    | 0.0862 | 0    |
| Selenium     | 82            | 0.1294   | -0.0041 | -0.1253 | 0    | 0.1274 | 0    |
| Silver       | 107           | 0.0006   | 0.0011  | -0.0018 | 0    | 0.0015 | 0    |
| Silver       | 109           | 0.0015   | -0.0004 | -0.001  | 0    | 0.0013 | 0    |
| Thallium     | 203           | -0.0001  | -0.0002 | 0.0003  | 0    | 0.0003 | 0    |
| Thallium     | 205           | 0.0001   | 0.0003  | -0.0005 | 0    | 0.0004 | 0    |
| Tin          | 118           | 0.0053   | 0.0032  | -0.0085 | 0    | 0.0074 | 0    |
| Tin          | 120           | 0.002  | -0.0008 | -0.0012 | 0    | 0.0018 | 0    |
| Uranium      | 238           | 0.0003   | -0.0003 | 0       | 0    | 0.0003 | 0    |
| Vanadium     | 51            | 0.0186   | -0.0086 | -0.01   | 0    | 0.0161 | 0    |
| Zinc         | 66            | -0.0156  | 0.026   | -0.0104 | 0    | 0.0227 | 0    |
| Zinc         | 67            | -0.0428  | -0.0055 | 0.0482  | 0    | 0.0457 | 0    |
| Zinc         | 68            | 0.0065   | -0.0265 | 0.02    | 0    | 0.0239 | 0    |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.914 | 1.024 | 1.076 | <b>0.914</b> | n/a | n/a |
| Scandium | 45  | 0.921 | 1.024 | 1.066 | <b>0.921</b> | n/a | n/a |
| Gallium  | 71  | 0.907 | 1.02  | 1.089 | <b>0.907</b> | n/a | n/a |
| Rhodium  | 103 | 0.911 | 1.037 | 1.066 | <b>0.911</b> | n/a | n/a |
| Indium   | 115 | 0.936 | 1.008 | 1.064 | <b>0.936</b> | n/a | n/a |
| Lutetium | 175 | 0.911 | 1.04  | 1.064 | <b>0.911</b> | n/a | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | Cal. Stn      | Mean  |       |       | SD | %RSD   |        |
|--------------|---------------|-------|-------|-------|----|--------|--------|
| TimeStamp    | 5/12/10 13:15 |       |       |       |    |        |        |
| Aluminum     | 27            | 24.78 | 25.14 | 25.09 | 25 | 0.1933 | 0.7734 |
| Antimony     | 121           | 25.35 | 25.15 | 24.49 | 25 | 0.4494 | 1.798  |
| Antimony     | 123           | 25.37 | 24.83 | 24.8  | 25 | 0.3202 | 1.281  |
| Arsenic      | 75            | 25.08 | 24.89 | 25.03 | 25 | 0.1004 | 0.4015 |
| Barium       | 135           | 25.16 | 25.18 | 24.66 | 25 | 0.2917 | 1.167  |
| Barium       | 137           | 24.93 | 25.3  | 24.77 | 25 | 0.2723 | 1.089  |
| Barium       | 138           | 25.65 | 25.27 | 24.07 | 25 | 0.826  | 3.304  |
| Beryllium    | 9             | 24.89 | 24.67 | 25.44 | 25 | 0.3969 | 1.588  |
| Cadmium      | 111           | 25.05 | 24.6  | 25.35 | 25 | 0.3786 | 1.515  |
| Cadmium      | 114           | 25.42 | 24.9  | 24.68 | 25 | 0.3835 | 1.534  |
| Chromium     | 52            | 25    | 25.35 | 24.65 | 25 | 0.353  | 1.412  |
| Chromium     | 53            | 24.75 | 25.45 | 24.8  | 25 | 0.3899 | 1.56   |
| Cobalt       | 59            | 24.85 | 25.19 | 24.96 | 25 | 0.173  | 0.6922 |
| Copper       | 63            | 24.81 | 25.27 | 24.92 | 25 | 0.2386 | 0.9545 |
| Copper       | 65            | 25.17 | 24.99 | 24.85 | 25 | 0.161  | 0.6439 |
| Lead         | 206           | 25.35 | 25.12 | 24.52 | 25 | 0.429  | 1.716  |
| Lead         | 207           | 25.57 | 24.73 | 24.7  | 25 | 0.4949 | 1.98   |
| Lead         | 208           | 25.4  | 24.99 | 24.62 | 25 | 0.3896 | 1.558  |
| Manganese    | 55            | 24.88 | 25.44 | 24.68 | 25 | 0.3968 | 1.587  |
| Molybdenum   | 95            | 24.86 | 24.85 | 25.29 | 25 | 0.2499 | 0.9995 |
| Molybdenum   | 97            | 25.14 | 24.83 | 25.03 | 25 | 0.153  | 0.6119 |
| Molybdenum   | 98            | 24.65 | 25.35 | 25.01 | 25 | 0.3521 | 1.408  |
| Nickel       | 60            | 25.33 | 25.1  | 24.56 | 25 | 0.3961 | 1.584  |
| Nickel       | 62            | 24.95 | 25.03 | 25.02 | 25 | 0.0442 | 0.1769 |
| Selenium     | 77            | 24.94 | 25    | 25.06 | 25 | 0.0611 | 0.2443 |
| Selenium     | 78            | 24.48 | 24.98 | 25.54 | 25 | 0.5325 | 2.13   |
| Selenium     | 82            | 25.61 | 24.82 | 24.58 | 25 | 0.5382 | 2.153  |
| Silver       | 107           | 24.9  | 24.88 | 25.22 | 25 | 0.1873 | 0.749  |
| Silver       | 109           | 24.76 | 24.95 | 25.29 | 25 | 0.2726 | 1.09   |
| Thallium     | 203           | 25.86 | 24.93 | 24.22 | 25 | 0.8243 | 3.297  |
| Thallium     | 205           | 25.79 | 24.63 | 24.58 | 25 | 0.6872 | 2.749  |
| Tin          | 118           | 24.89 | 24.87 | 25.24 | 25 | 0.2041 | 0.8164 |
| Tin          | 120           | 25.13 | 24.62 | 25.25 | 25 | 0.3353 | 1.341  |
| Uranium      | 238           | 25.8  | 25.26 | 23.93 | 25 | 0.9614 | 3.846  |
| Vanadium     | 51            | 25.3  | 24.74 | 24.95 | 25 | 0.2834 | 1.134  |
| Zinc         | 66            | 24.93 | 24.83 | 25.24 | 25 | 0.218  | 0.8719 |
| Zinc         | 67            | 24.72 | 25.36 | 24.92 | 25 | 0.3283 | 1.313  |
| Zinc         | 68            | 25.03 | 24.82 | 25.14 | 25 | 0.1631 | 0.6524 |

**Internal Standard Factors:**

|          |     |       |       |       |       |     |     |
|----------|-----|-------|-------|-------|-------|-----|-----|
| Lithium  | 6   | 0.973 | 1.05  | 1.095 | 0.973 | n/a | n/a |
| Scandium | 45  | 0.974 | 1.064 | 1.03  | 0.974 | n/a | n/a |
| Gallium  | 71  | 0.942 | 1.046 | 1.062 | 0.942 | n/a | n/a |
| Rhodium  | 103 | 0.948 | 1.018 | 1.041 | 0.948 | n/a | n/a |
| Indium   | 115 | 0.938 | 1.009 | 1.019 | 0.938 | n/a | n/a |
| Lutetium | 175 | 0.95  | 1.006 | 1.01  | 0.95  | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | ICV1          | Mean  | SD    | %RSD  |              |        |        |
|--------------|---------------|-------|-------|-------|--------------|--------|--------|
| TimeStamp    | 5/12/10 13:20 |       |       |       |              |        |        |
| Aluminum     | 27            | 94.04 | 94.77 | 96.62 | <b>95.14</b> | 1.331  | 1.399  |
| Antimony     | 121           | 23.54 | 23.27 | 24.38 | <b>23.73</b> | 0.5817 | 2.452  |
| Antimony     | 123           | 22.88 | 23.61 | 24.58 | <b>23.69</b> | 0.8551 | 3.61   |
| Arsenic      | 75            | 25.74 | 25.35 | 25.34 | <b>25.48</b> | 0.2321 | 0.9111 |
| Barium       | 135           | 102.1 | 99.76 | 104   | <b>102</b>   | 2.131  | 2.09   |
| Barium       | 137           | 98.19 | 101   | 99.56 | <b>99.59</b> | 1.417  | 1.423  |
| Barium       | 138           | 98.46 | 101   | 103.4 | <b>100.9</b> | 2.446  | 2.423  |
| Beryllium    | 9             | 2.66  | 2.565 | 2.694 | <b>2.64</b>  | 0.0666 | 2.524  |
| Cadmium      | 111           | 12.64 | 12.84 | 12.74 | <b>12.74</b> | 0.0966 | 0.7586 |
| Cadmium      | 114           | 12.92 | 12.78 | 13.49 | <b>13.06</b> | 0.3721 | 2.849  |
| Chromium     | 52            | 10.08 | 9.965 | 10.19 | <b>10.08</b> | 0.1102 | 1.093  |
| Chromium     | 53            | 10.51 | 10.63 | 10.29 | <b>10.47</b> | 0.1727 | 1.649  |
| Cobalt       | 59            | 24.82 | 25.34 | 25.23 | <b>25.13</b> | 0.2745 | 1.092  |
| Copper       | 63            | 12.75 | 13.04 | 12.97 | <b>12.92</b> | 0.1499 | 1.16   |
| Copper       | 65            | 13.04 | 12.63 | 13.05 | <b>12.9</b>  | 0.2384 | 1.847  |
| Lead         | 206           | 23.02 | 22.89 | 23.33 | <b>23.08</b> | 0.227  | 0.9834 |
| Lead         | 207           | 25.8  | 25.27 | 25.63 | <b>25.56</b> | 0.2709 | 1.06   |
| Lead         | 208           | 24.32 | 24.31 | 24.75 | <b>24.46</b> | 0.2523 | 1.032  |
| Manganese    | 55            | 25.13 | 25.22 | 26.04 | <b>25.46</b> | 0.505  | 1.983  |
| Molybdenum   | 95            | 25.6  | 25.34 | 26.05 | <b>25.66</b> | 0.3607 | 1.406  |
| Molybdenum   | 97            | 25.22 | 25.33 | 25.69 | <b>25.41</b> | 0.2459 | 0.9678 |
| Molybdenum   | 98            | 25.41 | 25.11 | 25.92 | <b>25.48</b> | 0.4136 | 1.623  |
| Nickel       | 60            | 25.29 | 25.27 | 25.13 | <b>25.23</b> | 0.0909 | 0.3601 |
| Nickel       | 62            | 25.05 | 25.13 | 25.04 | <b>25.07</b> | 0.0508 | 0.2027 |
| Selenium     | 77            | 25.7  | 25.9  | 25.48 | <b>25.69</b> | 0.2078 | 0.8088 |
| Selenium     | 78            | 24.85 | 25.53 | 25.5  | <b>25.29</b> | 0.3868 | 1.529  |
| Selenium     | 82            | 25.33 | 25.56 | 25.66 | <b>25.52</b> | 0.172  | 0.6742 |
| Silver       | 107           | 12.78 | 12.29 | 12.78 | <b>12.61</b> | 0.2828 | 2.242  |
| Silver       | 109           | 12.46 | 12.52 | 12.48 | <b>12.49</b> | 0.0262 | 0.2095 |
| Thallium     | 203           | 24.31 | 24.29 | 24.61 | <b>24.4</b>  | 0.1814 | 0.7432 |
| Thallium     | 205           | 23.86 | 24.35 | 24.92 | <b>24.38</b> | 0.5336 | 2.189  |
| Tin          | 118           | 22.57 | 22.66 | 23.06 | <b>22.76</b> | 0.2599 | 1.142  |
| Tin          | 120           | 22.58 | 23.09 | 23.6  | <b>23.09</b> | 0.5096 | 2.207  |
| Uranium      | 238           | 23.64 | 24.42 | 24.91 | <b>24.32</b> | 0.6446 | 2.65   |
| Vanadium     | 51            | 25.88 | 25.74 | 26.04 | <b>25.89</b> | 0.1514 | 0.5847 |
| Zinc         | 66            | 25.52 | 25.83 | 25.1  | <b>25.48</b> | 0.3632 | 1.425  |
| Zinc         | 67            | 29.2  | 27.96 | 28.3  | <b>28.49</b> | 0.6414 | 2.251  |
| Zinc         | 68            | 28.58 | 27.6  | 28.01 | <b>28.06</b> | 0.492  | 1.753  |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.003 | 1.079 | 1.099 | <b>1.003</b> | n/a | n/a |
| Scandium | 45  | 0.986 | 1.083 | 1.086 | <b>0.986</b> | n/a | n/a |
| Gallium  | 71  | 0.968 | 1.065 | 1.065 | <b>0.968</b> | n/a | n/a |
| Rhodium  | 103 | 0.953 | 1.026 | 1.052 | <b>0.953</b> | n/a | n/a |
| Indium   | 115 | 0.936 | 1.016 | 1.037 | <b>0.936</b> | n/a | n/a |
| Lutetium | 175 | 0.901 | 0.988 | 1.021 | <b>0.901</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCV1          | Mean  | SD    | %RSD  |              |        |        |
|--------------|---------------|-------|-------|-------|--------------|--------|--------|
| TimeStamp    | 5/12/10 13:24 |       |       |       |              |        |        |
| Aluminum     | 27            | 24.15 | 24.35 | 24.54 | <b>24.35</b> | 0.1981 | 0.8137 |
| Antimony     | 121           | 26.15 | 25.89 | 25.02 | <b>25.69</b> | 0.5932 | 2.309  |
| Antimony     | 123           | 25.36 | 25.95 | 25.32 | <b>25.54</b> | 0.3545 | 1.388  |
| Arsenic      | 75            | 24.94 | 23.93 | 26.07 | <b>24.98</b> | 1.07   | 4.284  |
| Barium       | 135           | 24.54 | 25.06 | 25.07 | <b>24.89</b> | 0.304  | 1.221  |
| Barium       | 137           | 24.32 | 24.91 | 24.33 | <b>24.52</b> | 0.3376 | 1.377  |
| Barium       | 138           | 24.84 | 25.24 | 25.03 | <b>25.03</b> | 0.1986 | 0.7934 |
| Beryllium    | 9             | 25.05 | 24.6  | 24.62 | <b>24.76</b> | 0.2546 | 1.028  |
| Cadmium      | 111           | 25.31 | 25.3  | 25.62 | <b>25.41</b> | 0.1811 | 0.7127 |
| Cadmium      | 114           | 24.24 | 24.72 | 24.77 | <b>24.58</b> | 0.2921 | 1.188  |
| Chromium     | 52            | 24.71 | 24.76 | 24.9  | <b>24.79</b> | 0.0942 | 0.3801 |
| Chromium     | 53            | 24.87 | 25.51 | 25.62 | <b>25.33</b> | 0.4036 | 1.593  |
| Cobalt       | 59            | 24.83 | 24.68 | 25.19 | <b>24.9</b>  | 0.2593 | 1.042  |
| Copper       | 63            | 24.86 | 24.17 | 24.6  | <b>24.55</b> | 0.347  | 1.414  |
| Copper       | 65            | 24.79 | 25.41 | 25.47 | <b>25.22</b> | 0.3778 | 1.498  |
| Lead         | 206           | 25.07 | 25.24 | 24.34 | <b>24.89</b> | 0.4777 | 1.919  |
| Lead         | 207           | 24.03 | 24.17 | 24.22 | <b>24.14</b> | 0.0969 | 0.4012 |
| Lead         | 208           | 24.59 | 24.51 | 24.13 | <b>24.41</b> | 0.2503 | 1.026  |
| Manganese    | 55            | 24.4  | 24.83 | 25.36 | <b>24.86</b> | 0.4789 | 1.926  |
| Molybdenum   | 95            | 25.03 | 26.08 | 26.12 | <b>25.74</b> | 0.6203 | 2.409  |
| Molybdenum   | 97            | 25.31 | 24.52 | 25.31 | <b>25.05</b> | 0.4535 | 1.811  |
| Molybdenum   | 98            | 25.19 | 25.83 | 25.34 | <b>25.45</b> | 0.336  | 1.32   |
| Nickel       | 60            | 24.55 | 24.38 | 24.98 | <b>24.63</b> | 0.3089 | 1.254  |
| Nickel       | 62            | 24.96 | 24.38 | 24.37 | <b>24.57</b> | 0.3375 | 1.374  |
| Selenium     | 77            | 24.69 | 25.22 | 24.73 | <b>24.88</b> | 0.2904 | 1.167  |
| Selenium     | 78            | 25.15 | 24.08 | 24.66 | <b>24.63</b> | 0.5356 | 2.174  |
| Selenium     | 82            | 25.03 | 23.59 | 25.21 | <b>24.61</b> | 0.8864 | 3.602  |
| Silver       | 107           | 25.41 | 25.94 | 25.13 | <b>25.49</b> | 0.415  | 1.628  |
| Silver       | 109           | 24.67 | 25.21 | 25.08 | <b>24.98</b> | 0.2811 | 1.125  |
| Thallium     | 203           | 24.48 | 24.63 | 24.4  | <b>24.5</b>  | 0.116  | 0.4734 |
| Thallium     | 205           | 24.11 | 23.9  | 24.25 | <b>24.09</b> | 0.1774 | 0.7364 |
| Tin          | 118           | 24.65 | 24.99 | 25.4  | <b>25.01</b> | 0.3768 | 1.506  |
| Tin          | 120           | 24.63 | 26.08 | 25.31 | <b>25.34</b> | 0.7274 | 2.87   |
| Uranium      | 238           | 24.45 | 24.68 | 24.29 | <b>24.47</b> | 0.1994 | 0.8148 |
| Vanadium     | 51            | 24.9  | 25.19 | 25.47 | <b>25.18</b> | 0.2828 | 1.123  |
| Zinc         | 66            | 25.09 | 24.67 | 25.35 | <b>25.04</b> | 0.3442 | 1.375  |
| Zinc         | 67            | 24.54 | 23.55 | 24.8  | <b>24.3</b>  | 0.6598 | 2.715  |
| Zinc         | 68            | 24.72 | 24.24 | 24.96 | <b>24.64</b> | 0.3693 | 1.499  |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.004 | 1.068 | 1.093 | <b>1.004</b> | n/a | n/a |
| Scandium | 45  | 0.991 | 1.1   | 1.103 | <b>0.991</b> | n/a | n/a |
| Gallium  | 71  | 0.981 | 1.061 | 1.111 | <b>0.981</b> | n/a | n/a |
| Rhodium  | 103 | 0.978 | 1.079 | 1.088 | <b>0.978</b> | n/a | n/a |
| Indium   | 115 | 0.945 | 1.05  | 1.051 | <b>0.945</b> | n/a | n/a |
| Lutetium | 175 | 0.935 | 1.026 | 1.052 | <b>0.935</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | ICB1          | Mean    | SD      | %RSD    |                |        |       |
|--------------|---------------|---------|---------|---------|----------------|--------|-------|
| TimeStamp    | 5/12/10 13:54 |         |         |         |                |        |       |
| Aluminum     | 27            | 0.087   | 0.0777  | 0.1153  | <b>0.0934</b>  | 0.0196 | 20.99 |
| Antimony     | 121           | -0.0223 | -0.0205 | -0.0211 | <b>-0.0213</b> | 0.0009 | 4.349 |
| Antimony     | 123           | -0.025  | -0.0186 | -0.0257 | <b>-0.0231</b> | 0.0039 | 16.8  |
| Arsenic      | 75            | 0.0624  | 0.1149  | 0.0823  | <b>0.0865</b>  | 0.0265 | 30.62 |
| Barium       | 135           | 0.0028  | 0.0049  | -0.0016 | <b>0.002</b>   | 0.0033 | 163.2 |
| Barium       | 137           | 0.0009  | 0.0023  | 0.0051  | <b>0.0028</b>  | 0.0021 | 76.73 |
| Barium       | 138           | 0.0004  | 0.0027  | 0.0035  | <b>0.0022</b>  | 0.0016 | 73.8  |
| Beryllium    | 9             | 0.0013  | -0.0004 | 0.0023  | <b>0.001</b>   | 0.0014 | 130.5 |
| Cadmium      | 111           | 0       | 0.0074  | -0.0012 | <b>0.0021</b>  | 0.0046 | 223   |
| Cadmium      | 114           | -0.0009 | 0       | 0.0022  | <b>0.0004</b>  | 0.0016 | 371.5 |
| Chromium     | 52            | 0.0191  | 0.0271  | 0.0057  | <b>0.0173</b>  | 0.0108 | 62.54 |
| Chromium     | 53            | -0.0238 | 0.0199  | -0.09   | <b>-0.0313</b> | 0.0553 | 177   |
| Cobalt       | 59            | -0.0163 | -0.0057 | -0.0131 | <b>-0.0117</b> | 0.0054 | 46.16 |
| Copper       | 63            | 0.0051  | 0.0097  | 0.0113  | <b>0.0087</b>  | 0.0032 | 36.99 |
| Copper       | 65            | 0.0087  | 0.0031  | 0.0113  | <b>0.0077</b>  | 0.0042 | 54.02 |
| Lead         | 206           | 0.0032  | 0.0023  | 0.0004  | <b>0.0019</b>  | 0.0014 | 74.41 |
| Lead         | 207           | -0.0003 | 0.0035  | -0.0027 | <b>0.0001</b>  | 0.0031 | 2126  |
| Lead         | 208           | 0.0014  | 0.0026  | 0.0001  | <b>0.0014</b>  | 0.0013 | 94.57 |
| Manganese    | 55            | 0.0008  | 0.0032  | 0.0031  | <b>0.0024</b>  | 0.0013 | 55.88 |
| Molybdenum   | 95            | -0.0017 | -0.0038 | -0.0016 | <b>-0.0024</b> | 0.0013 | 53.47 |
| Molybdenum   | 97            | 0.0054  | 0.0049  | 0.0069  | <b>0.0057</b>  | 0.001  | 18.04 |
| Molybdenum   | 98            | -0.0004 | -0.0019 | -0.0036 | <b>-0.0019</b> | 0.0016 | 80.8  |
| Nickel       | 60            | 0.1487  | 0.0759  | 0.0577  | <b>0.0941</b>  | 0.0482 | 51.21 |
| Nickel       | 62            | 0.2062  | 0.1298  | 0.1196  | <b>0.1519</b>  | 0.0473 | 31.17 |
| Selenium     | 77            | -0.0339 | -0.1905 | -0.0848 | <b>-0.1031</b> | 0.0799 | 77.48 |
| Selenium     | 78            | -0.0906 | 0.3429  | 0.2005  | <b>0.151</b>   | 0.2209 | 146.4 |
| Selenium     | 82            | 0.1595  | 0.1995  | 0.158   | <b>0.1723</b>  | 0.0235 | 13.64 |
| Silver       | 107           | -0.0052 | -0.0061 | -0.0061 | <b>-0.0058</b> | 0.0005 | 8.68  |
| Silver       | 109           | -0.0061 | -0.0066 | -0.005  | <b>-0.0059</b> | 0.0008 | 13.48 |
| Thallium     | 203           | -0.0007 | -0.0013 | -0.001  | <b>-0.001</b>  | 0.0003 | 33.16 |
| Thallium     | 205           | 0.0003  | 0.0005  | 0.0001  | <b>0.0003</b>  | 0.0002 | 73.58 |
| Tin          | 118           | 0.0122  | 0.0042  | 0.01    | <b>0.0088</b>  | 0.0041 | 46.91 |
| Tin          | 120           | 0.0158  | 0.0189  | 0.0156  | <b>0.0168</b>  | 0.0019 | 11.28 |
| Uranium      | 238           | -0.0001 | 0.0007  | -0.0006 | <b>0</b>       | 0.0007 | 7361  |
| Vanadium     | 51            | 0.0199  | 0.0074  | 0.0339  | <b>0.0204</b>  | 0.0133 | 64.93 |
| Zinc         | 66            | -0.0205 | -0.0408 | 0.0854  | <b>0.008</b>   | 0.0678 | 843.4 |
| Zinc         | 67            | 0.0004  | -0.0502 | 0.043   | <b>-0.0023</b> | 0.0467 | 2032  |
| Zinc         | 68            | -0.0417 | 0.0081  | 0.0697  | <b>0.012</b>   | 0.0558 | 464   |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.98  | 1.059 | 1.092 | <b>0.98</b>  | n/a | n/a |
| Scandium | 45  | 1.047 | 1.115 | 1.125 | <b>1.047</b> | n/a | n/a |
| Gallium  | 71  | 1.006 | 1.161 | 1.208 | <b>1.006</b> | n/a | n/a |
| Rhodium  | 103 | 1.065 | 1.15  | 1.187 | <b>1.065</b> | n/a | n/a |
| Indium   | 115 | 1.075 | 1.165 | 1.236 | <b>1.075</b> | n/a | n/a |
| Lutetium | 175 | 1.159 | 1.232 | 1.257 | <b>1.159</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCB1          | Mean    | SD      | %RSD    |                |        |       |
|--------------|---------------|---------|---------|---------|----------------|--------|-------|
| TimeStamp    | 5/12/10 13:58 |         |         |         |                |        |       |
| Aluminum     | 27            | 0.086   | 0.134   | 0.1416  | <b>0.1205</b>  | 0.0302 | 25.01 |
| Antimony     | 121           | -0.0259 | -0.0267 | -0.0272 | <b>-0.0266</b> | 0.0007 | 2.453 |
| Antimony     | 123           | -0.0237 | -0.0225 | -0.0253 | <b>-0.0238</b> | 0.0014 | 5.845 |
| Arsenic      | 75            | 0.0907  | 0.0422  | 0.0915  | <b>0.0748</b>  | 0.0283 | 37.8  |
| Barium       | 135           | -0.0035 | 0.0052  | -0.0003 | <b>0.0005</b>  | 0.0044 | 973   |
| Barium       | 137           | 0.0031  | 0.008   | 0.0017  | <b>0.0043</b>  | 0.0033 | 77.05 |
| Barium       | 138           | 0.0018  | 0.0023  | 0.0009  | <b>0.0017</b>  | 0.0007 | 43.73 |
| Beryllium    | 9             | 0.001   | 0.0012  | 0.0017  | <b>0.0013</b>  | 0.0004 | 29.23 |
| Cadmium      | 111           | -0.0016 | -0.0021 | -0.003  | <b>-0.0023</b> | 0.0007 | 32.77 |
| Cadmium      | 114           | 0.0008  | -0.0002 | 0.0001  | <b>0.0002</b>  | 0.0005 | 229.2 |
| Chromium     | 52            | 0.0315  | -0.0012 | 0.0432  | <b>0.0245</b>  | 0.023  | 93.77 |
| Chromium     | 53            | -0.0076 | -0.0208 | 0.0265  | <b>-0.0006</b> | 0.0244 | 3957  |
| Cobalt       | 59            | -0.0119 | -0.006  | -0.0061 | <b>-0.008</b>  | 0.0034 | 42.21 |
| Copper       | 63            | -0.007  | 0.0012  | 0.0069  | <b>0.0004</b>  | 0.007  | 1926  |
| Copper       | 65            | 0.0004  | -0.0047 | 0.0045  | <b>0.0001</b>  | 0.0046 | 9212  |
| Lead         | 206           | 0.0019  | -0.0022 | -0.0019 | <b>-0.0008</b> | 0.0023 | 303.6 |
| Lead         | 207           | -0.0027 | -0.0004 | -0.0001 | <b>-0.0011</b> | 0.0014 | 133.4 |
| Lead         | 208           | 0.0001  | -0.0008 | -0.0014 | <b>-0.0007</b> | 0.0008 | 116.7 |
| Manganese    | 55            | 0.0056  | 0.0048  | 0.0065  | <b>0.0056</b>  | 0.0009 | 15.21 |
| Molybdenum   | 95            | -0.0065 | -0.011  | -0.0022 | <b>-0.0066</b> | 0.0044 | 66.36 |
| Molybdenum   | 97            | 0.0115  | -0.0034 | 0.0015  | <b>0.0032</b>  | 0.0076 | 239.9 |
| Molybdenum   | 98            | -0.003  | -0.0028 | 0.0034  | <b>-0.0008</b> | 0.0036 | 450   |
| Nickel       | 60            | 0.0317  | 0.0283  | 0.0435  | <b>0.0345</b>  | 0.008  | 23.11 |
| Nickel       | 62            | 0.131   | 0.0724  | 0.1026  | <b>0.102</b>   | 0.0293 | 28.74 |
| Selenium     | 77            | 0.0341  | 0.0608  | 0.0928  | <b>0.0626</b>  | 0.0294 | 47.01 |
| Selenium     | 78            | 0.1864  | -0.0537 | 0.1069  | <b>0.0799</b>  | 0.1223 | 153.1 |
| Selenium     | 82            | 0.3537  | 0.1501  | 0.3776  | <b>0.2938</b>  | 0.125  | 42.56 |
| Silver       | 107           | -0.0071 | -0.0063 | -0.0051 | <b>-0.0062</b> | 0.001  | 16.64 |
| Silver       | 109           | -0.0059 | -0.0077 | -0.0075 | <b>-0.007</b>  | 0.001  | 14.16 |
| Thallium     | 203           | -0.0004 | -0.0011 | 0.0007  | <b>-0.0003</b> | 0.0009 | 304   |
| Thallium     | 205           | -0.0001 | -0.0004 | 0.001   | <b>0.0002</b>  | 0.0008 | 486.8 |
| Tin          | 118           | 0.004   | 0.0015  | 0.0072  | <b>0.0042</b>  | 0.0028 | 67.51 |
| Tin          | 120           | 0.0085  | 0.0077  | 0.0013  | <b>0.0058</b>  | 0.0039 | 67.64 |
| Uranium      | 238           | -0.0007 | -0.0005 | 0.0008  | <b>-0.0001</b> | 0.0008 | 650.8 |
| Vanadium     | 51            | 0.0119  | 0.0027  | -0.011  | <b>0.0012</b>  | 0.0115 | 956.5 |
| Zinc         | 66            | -0.0462 | -0.038  | -0.0335 | <b>-0.0392</b> | 0.0064 | 16.33 |
| Zinc         | 67            | -0.0353 | -0.0513 | -0.0437 | <b>-0.0434</b> | 0.008  | 18.5  |
| Zinc         | 68            | -0.0124 | -0.0124 | -0.0345 | <b>-0.0197</b> | 0.0128 | 64.83 |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.017 | 1.107 | 1.095 | <b>1.017</b> | n/a | n/a |
| Scandium | 45  | 1.038 | 1.151 | 1.155 | <b>1.038</b> | n/a | n/a |
| Gallium  | 71  | 1.06  | 1.172 | 1.18  | <b>1.06</b>  | n/a | n/a |
| Rhodium  | 103 | 1.073 | 1.164 | 1.19  | <b>1.073</b> | n/a | n/a |
| Indium   | 115 | 1.084 | 1.201 | 1.183 | <b>1.084</b> | n/a | n/a |
| Lutetium | 175 | 1.143 | 1.239 | 1.283 | <b>1.143</b> | n/a | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | WATER CRA     |        |        | Mean          | SD     | %RSD  |
|--------------|-----|---------------|--------|--------|---------------|--------|-------|
| TimeStamp    |     | 5/12/10 14:03 |        |        |               |        |       |
| Aluminum     | 27  | 2.388         | 2.497  | 2.508  | <b>2.464</b>  | 0.0665 | 2.7   |
| Antimony     | 121 | 0.0323        | 0.0265 | 0.0371 | <b>0.0319</b> | 0.0053 | 16.48 |
| Antimony     | 123 | 0.0295        | 0.0277 | 0.0332 | <b>0.0301</b> | 0.0028 | 9.318 |
| Arsenic      | 75  | 0.7585        | 0.7388 | 0.5184 | <b>0.6719</b> | 0.1333 | 19.83 |
| Barium       | 135 | 0.0664        | 0.0808 | 0.0813 | <b>0.0761</b> | 0.0084 | 11.09 |
| Barium       | 137 | 0.0723        | 0.0622 | 0.0703 | <b>0.0683</b> | 0.0054 | 7.882 |
| Barium       | 138 | 0.0664        | 0.0711 | 0.0669 | <b>0.0681</b> | 0.0026 | 3.795 |
| Beryllium    | 9   | 0.0332        | 0.0308 | 0.013  | <b>0.0257</b> | 0.011  | 42.94 |
| Cadmium      | 111 | 0.0227        | 0.0117 | 0.0316 | <b>0.022</b>  | 0.01   | 45.39 |
| Cadmium      | 114 | 0.0221        | 0.0329 | 0.0297 | <b>0.0282</b> | 0.0056 | 19.72 |
| Chromium     | 52  | 0.2831        | 0.2537 | 0.2841 | <b>0.2736</b> | 0.0173 | 6.307 |
| Chromium     | 53  | 0.2356        | 0.2283 | 0.2808 | <b>0.2483</b> | 0.0285 | 11.46 |
| Cobalt       | 59  | 0.0129        | 0.0165 | 0.0239 | <b>0.0178</b> | 0.0056 | 31.39 |
| Copper       | 63  | 0.1486        | 0.1641 | 0.145  | <b>0.1526</b> | 0.0101 | 6.638 |
| Copper       | 65  | 0.1402        | 0.1407 | 0.1307 | <b>0.1372</b> | 0.0056 | 4.116 |
| Lead         | 206 | 0.028         | 0.0194 | 0.0246 | <b>0.024</b>  | 0.0043 | 17.99 |
| Lead         | 207 | 0.0199        | 0.0268 | 0.032  | <b>0.0262</b> | 0.0061 | 23.13 |
| Lead         | 208 | 0.0249        | 0.023  | 0.0285 | <b>0.0255</b> | 0.0028 | 11.03 |
| Manganese    | 55  | 0.0659        | 0.0746 | 0.0677 | <b>0.0694</b> | 0.0046 | 6.578 |
| Molybdenum   | 95  | 0.0566        | 0.0431 | 0.0522 | <b>0.0506</b> | 0.0069 | 13.64 |
| Molybdenum   | 97  | 0.0496        | 0.0538 | 0.0554 | <b>0.0529</b> | 0.003  | 5.659 |
| Molybdenum   | 98  | 0.0481        | 0.049  | 0.0472 | <b>0.0481</b> | 0.0009 | 1.864 |
| Nickel       | 60  | 0.3764        | 0.3468 | 0.3755 | <b>0.3662</b> | 0.0168 | 4.592 |
| Nickel       | 62  | 0.2701        | 0.3785 | 0.2602 | <b>0.3029</b> | 0.0656 | 21.66 |
| Selenium     | 77  | 1.092         | 0.8566 | 1.121  | <b>1.023</b>  | 0.145  | 14.17 |
| Selenium     | 78  | 1.443         | 1.388  | 1.218  | <b>1.35</b>   | 0.1175 | 8.707 |
| Selenium     | 82  | 1.498         | 1.236  | 0.8554 | <b>1.196</b>  | 0.3232 | 27.01 |
| Silver       | 107 | 0.0238        | 0.0196 | 0.0229 | <b>0.0221</b> | 0.0022 | 10.05 |
| Silver       | 109 | 0.0187        | 0.0239 | 0.0228 | <b>0.0218</b> | 0.0027 | 12.43 |
| Thallium     | 203 | 0.0209        | 0.0232 | 0.024  | <b>0.0227</b> | 0.0016 | 7.02  |
| Thallium     | 205 | 0.0254        | 0.0234 | 0.0235 | <b>0.0241</b> | 0.0012 | 4.789 |
| Tin          | 118 | 0.069         | 0.0564 | 0.0689 | <b>0.0648</b> | 0.0072 | 11.18 |
| Tin          | 120 | 0.0664        | 0.0652 | 0.0668 | <b>0.0661</b> | 0.0009 | 1.286 |
| Uranium      | 238 | 0.0248        | 0.025  | 0.0235 | <b>0.0245</b> | 0.0008 | 3.424 |
| Vanadium     | 51  | 0.2695        | 0.2554 | 0.2324 | <b>0.2525</b> | 0.0187 | 7.412 |
| Zinc         | 66  | 0.8358        | 0.8326 | 0.7586 | <b>0.809</b>  | 0.0437 | 5.398 |
| Zinc         | 67  | 0.7974        | 0.8468 | 0.741  | <b>0.7951</b> | 0.0529 | 6.658 |
| Zinc         | 68  | 0.8255        | 0.7895 | 0.7839 | <b>0.7996</b> | 0.0226 | 2.827 |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 1.013 | 1.088 | 1.098 | <b>1.013</b> n/a | n/a |
| Scandium | 45  | 1.042 | 1.133 | 1.157 | <b>1.042</b> n/a | n/a |
| Gallium  | 71  | 1.053 | 1.171 | 1.154 | <b>1.053</b> n/a | n/a |
| Rhodium  | 103 | 1.027 | 1.156 | 1.142 | <b>1.027</b> n/a | n/a |
| Indium   | 115 | 1.057 | 1.156 | 1.161 | <b>1.057</b> n/a | n/a |
| Lutetium | 175 | 1.12  | 1.254 | 1.265 | <b>1.12</b> n/a  | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1003436-049 1/100 |         |         | Mean           | SD     | %RSD   |
|--------------|-----|--------------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:08      |         |         |                |        |        |
| Aluminum     | 27  | 11.83              | 11.94   | 11.63   | <b>11.8</b>    | 0.1573 | 1.333  |
| Antimony     | 121 | 0.0156             | 0.0154  | 0.0193  | <b>0.0167</b>  | 0.0022 | 13.12  |
| Antimony     | 123 | 0.0163             | 0.012   | 0.0133  | <b>0.0139</b>  | 0.0022 | 15.96  |
| Arsenic      | 75  | 0.3459             | 0.5625  | 0.549   | <b>0.4858</b>  | 0.1214 | 24.98  |
| Barium       | 135 | 6.991              | 6.973   | 7.251   | <b>7.072</b>   | 0.1556 | 2.201  |
| Barium       | 137 | 7.291              | 7.051   | 7.232   | <b>7.191</b>   | 0.1248 | 1.736  |
| Barium       | 138 | 7.113              | 7.14    | 7.335   | <b>7.196</b>   | 0.1212 | 1.684  |
| Beryllium    | 9   | -0.0008            | 0.0059  | -0.0008 | <b>0.0014</b>  | 0.0039 | 278    |
| Cadmium      | 111 | 0.6868             | 0.6619  | 0.6343  | <b>0.661</b>   | 0.0263 | 3.973  |
| Cadmium      | 114 | 0.6581             | 0.6758  | 0.6705  | <b>0.6681</b>  | 0.0091 | 1.361  |
| Chromium     | 52  | 0.0546             | 0.1091  | 0.0977  | <b>0.0872</b>  | 0.0287 | 32.96  |
| Chromium     | 53  | 0.4708             | 0.4465  | 0.5482  | <b>0.4885</b>  | 0.0531 | 10.87  |
| Cobalt       | 59  | 0.1384             | 0.1466  | 0.1442  | <b>0.1431</b>  | 0.0042 | 2.951  |
| Copper       | 63  | 0.476              | 0.4417  | 0.4473  | <b>0.455</b>   | 0.0184 | 4.041  |
| Copper       | 65  | 0.4896             | 0.4562  | 0.4539  | <b>0.4666</b>  | 0.02   | 4.287  |
| Lead         | 206 | 0.0874             | 0.0887  | 0.0951  | <b>0.0904</b>  | 0.0041 | 4.549  |
| Lead         | 207 | 0.1195             | 0.1086  | 0.1142  | <b>0.1141</b>  | 0.0054 | 4.76   |
| Lead         | 208 | 0.1065             | 0.0995  | 0.1077  | <b>0.1046</b>  | 0.0044 | 4.209  |
| Manganese    | 55  | 24.8               | 25.15   | 24.75   | <b>24.9</b>    | 0.2197 | 0.8821 |
| Molybdenum   | 95  | 0.0078             | 0.0177  | 0.0031  | <b>0.0096</b>  | 0.0074 | 77.61  |
| Molybdenum   | 97  | 0.0178             | 0.0175  | 0.0174  | <b>0.0176</b>  | 0.0002 | 1.329  |
| Molybdenum   | 98  | 0.0133             | 0.0162  | 0.0046  | <b>0.0114</b>  | 0.006  | 52.97  |
| Nickel       | 60  | 0.8779             | 0.9019  | 0.8848  | <b>0.8882</b>  | 0.0124 | 1.393  |
| Nickel       | 62  | 1.093              | 1.123   | 0.9067  | <b>1.041</b>   | 0.1171 | 11.25  |
| Selenium     | 77  | 0.1143             | 0.0919  | 0.0022  | <b>0.0695</b>  | 0.0593 | 85.41  |
| Selenium     | 78  | -0.0136            | 0.1473  | 0.1446  | <b>0.0928</b>  | 0.0921 | 99.29  |
| Selenium     | 82  | -0.1644            | 0.3213  | 0.4599  | <b>0.2056</b>  | 0.3278 | 159.5  |
| Silver       | 107 | -0.0018            | -0.0051 | -0.0056 | <b>-0.0042</b> | 0.0021 | 50.34  |
| Silver       | 109 | -0.0029            | -0.0071 | -0.0054 | <b>-0.0051</b> | 0.0021 | 41.44  |
| Thallium     | 203 | 0.0002             | 0.001   | -0.0003 | <b>0.0003</b>  | 0.0007 | 200.8  |
| Thallium     | 205 | 0.0012             | 0.0013  | 0.0007  | <b>0.0011</b>  | 0.0003 | 32.42  |
| Tin          | 118 | 0.0007             | -0.0041 | -0.008  | <b>-0.0038</b> | 0.0043 | 114.9  |
| Tin          | 120 | 0.0045             | 0.0014  | -0.0032 | <b>0.0009</b>  | 0.0038 | 421.5  |
| Uranium      | 238 | 0.0022             | 0.0044  | 0.0028  | <b>0.0031</b>  | 0.0011 | 36.34  |
| Vanadium     | 51  | 0.0852             | 0.1394  | 0.0994  | <b>0.108</b>   | 0.0281 | 26.01  |
| Zinc         | 66  | 41.69              | 41.29   | 40.39   | <b>41.12</b>   | 0.6657 | 1.619  |
| Zinc         | 67  | 38.76              | 37.03   | 37.46   | <b>37.75</b>   | 0.9008 | 2.386  |
| Zinc         | 68  | 40.67              | 41.14   | 38.96   | <b>40.26</b>   | 1.146  | 2.848  |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 1.006 | 1.083 | 1.086 | <b>1.006</b> n/a | n/a |
| Scandium | 45  | 0.991 | 1.097 | 1.109 | <b>0.991</b> n/a | n/a |
| Gallium  | 71  | 1.034 | 1.106 | 1.092 | <b>1.034</b> n/a | n/a |
| Rhodium  | 103 | 1.053 | 1.099 | 1.123 | <b>1.053</b> n/a | n/a |
| Indium   | 115 | 1.051 | 1.103 | 1.123 | <b>1.051</b> n/a | n/a |
| Lutetium | 175 | 1.119 | 1.15  | 1.231 | <b>1.119</b> n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004641-001 1/20 |         |         | Mean           | SD     | %RSD   |
|--------------|-----|-------------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:13     |         |         |                |        |        |
| Aluminum     | 27  | 68.98             | 71.54   | 71.76   | <b>70.76</b>   | 1.548  | 2.187  |
| Antimony     | 121 | -0.0095           | -0.0124 | -0.0131 | <b>-0.0117</b> | 0.0019 | 16.56  |
| Antimony     | 123 | -0.0086           | -0.0135 | -0.0088 | <b>-0.0103</b> | 0.0028 | 26.84  |
| Arsenic      | 75  | 137.2             | 137.7   | 141.5   | <b>138.8</b>   | 2.382  | 1.716  |
| Barium       | 135 | 177.1             | 177.5   | 182.8   | <b>179.1</b>   | 3.178  | 1.774  |
| Barium       | 137 | 177.5             | 177.7   | 179.9   | <b>178.4</b>   | 1.325  | 0.7431 |
| Barium       | 138 | 173.1             | 176.6   | 180.1   | <b>176.6</b>   | 3.477  | 1.969  |
| Beryllium    | 9   | 0.1609            | 0.1363  | 0.139   | <b>0.1454</b>  | 0.0135 | 9.274  |
| Cadmium      | 111 | 0.0894            | 0.0784  | 0.0871  | <b>0.085</b>   | 0.0058 | 6.821  |
| Cadmium      | 114 | 0.0893            | 0.0974  | 0.103   | <b>0.0966</b>  | 0.0069 | 7.103  |
| Chromium     | 52  | 0.8467            | 0.8482  | 0.8244  | <b>0.8398</b>  | 0.0134 | 1.592  |
| Chromium     | 53  | 0.6994            | 0.6523  | 0.6436  | <b>0.6651</b>  | 0.03   | 4.511  |
| Cobalt       | 59  | 0.3487            | 0.3558  | 0.3583  | <b>0.3543</b>  | 0.005  | 1.404  |
| Copper       | 63  | 3.355             | 3.32    | 3.417   | <b>3.364</b>   | 0.0491 | 1.461  |
| Copper       | 65  | 3.376             | 3.301   | 3.495   | <b>3.391</b>   | 0.0975 | 2.877  |
| Lead         | 206 | 0.4035            | 0.3976  | 0.3874  | <b>0.3962</b>  | 0.0081 | 2.053  |
| Lead         | 207 | 0.4675            | 0.4239  | 0.4298  | <b>0.4404</b>  | 0.0236 | 5.366  |
| Lead         | 208 | 0.4284            | 0.4125  | 0.4189  | <b>0.4199</b>  | 0.008  | 1.899  |
| Manganese    | 55  | 12790             | 12790   | 12600   | <b>12720</b>   | 110.1  | 0.8652 |
| Molybdenum   | 95  | 0.555             | 0.4936  | 0.5256  | <b>0.5247</b>  | 0.0307 | 5.851  |
| Molybdenum   | 97  | 0.3521            | 0.3739  | 0.3627  | <b>0.3629</b>  | 0.0109 | 3.001  |
| Molybdenum   | 98  | 0.3241            | 0.3185  | 0.3434  | <b>0.3287</b>  | 0.0131 | 3.983  |
| Nickel       | 60  | 0.8023            | 0.8226  | 0.8062  | <b>0.8103</b>  | 0.0108 | 1.334  |
| Nickel       | 62  | 0.782             | 0.9097  | 0.8272  | <b>0.8397</b>  | 0.0648 | 7.712  |
| Selenium     | 77  | 0.6681            | 0.2835  | 0.2647  | <b>0.4054</b>  | 0.2277 | 56.16  |
| Selenium     | 78  | 0.2169            | 0.1174  | 0.1832  | <b>0.1725</b>  | 0.0506 | 29.35  |
| Selenium     | 82  | 0.481             | 0.381   | 0.2165  | <b>0.3595</b>  | 0.1335 | 37.15  |
| Silver       | 107 | -0.0012           | -0.005  | -0.0046 | <b>-0.0036</b> | 0.0021 | 58.03  |
| Silver       | 109 | -0.0034           | -0.0047 | -0.0054 | <b>-0.0045</b> | 0.0011 | 23.44  |
| Thallium     | 203 | 0.018             | 0.0153  | 0.0168  | <b>0.0167</b>  | 0.0013 | 8.033  |
| Thallium     | 205 | 0.015             | 0.0164  | 0.0129  | <b>0.0148</b>  | 0.0017 | 11.81  |
| Tin          | 118 | 0.3382            | 0.3185  | 0.3193  | <b>0.3253</b>  | 0.0111 | 3.417  |
| Tin          | 120 | 0.3323            | 0.3391  | 0.3248  | <b>0.3321</b>  | 0.0071 | 2.152  |
| Uranium      | 238 | 0.3265            | 0.3014  | 0.3144  | <b>0.3141</b>  | 0.0125 | 3.988  |
| Vanadium     | 51  | 2.198             | 2.263   | 2.24    | <b>2.234</b>   | 0.0332 | 1.486  |
| Zinc         | 66  | 18.12             | 18.34   | 17.96   | <b>18.14</b>   | 0.1946 | 1.073  |
| Zinc         | 67  | 24.27             | 24.6    | 24.88   | <b>24.59</b>   | 0.3086 | 1.255  |
| Zinc         | 68  | 24.41             | 24.71   | 24.19   | <b>24.44</b>   | 0.2587 | 1.059  |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 1.3   | 1.437 | 1.473 | <b>1.3</b> n/a   | n/a |
| Scandium | 45  | 1.103 | 1.245 | 1.278 | <b>1.103</b> n/a | n/a |
| Gallium  | 71  | 1.272 | 1.424 | 1.479 | <b>1.272</b> n/a | n/a |
| Rhodium  | 103 | 1.22  | 1.349 | 1.406 | <b>1.22</b> n/a  | n/a |
| Indium   | 115 | 1.183 | 1.305 | 1.361 | <b>1.183</b> n/a | n/a |
| Lutetium | 175 | 1.142 | 1.265 | 1.348 | <b>1.142</b> n/a | n/a |

Instrument ID: K-ICP-MS-02

Experiment: 05-12-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #200241

| Sample Name: |     | K1004641-MB   |         |         | Mean           | SD     | %RSD  |
|--------------|-----|---------------|---------|---------|----------------|--------|-------|
| TimeStamp    |     | 5/12/10 14:18 |         |         |                |        |       |
| Aluminum     | 27  | 0.0902        | 0.1129  | 0.0974  | <b>0.1002</b>  | 0.0116 | 11.61 |
| Antimony     | 121 | -0.0318       | -0.0309 | -0.0329 | <b>-0.0319</b> | 0.001  | 3.185 |
| Antimony     | 123 | -0.0279       | -0.0267 | -0.0318 | <b>-0.0288</b> | 0.0027 | 9.346 |
| Arsenic      | 75  | 0.2725        | 0.1091  | 0.1081  | <b>0.1632</b>  | 0.0946 | 57.96 |
| Barium       | 135 | 0.0179        | 0.0119  | 0.0165  | <b>0.0155</b>  | 0.0031 | 20.34 |
| Barium       | 137 | 0.0128        | 0.0097  | 0.0156  | <b>0.0127</b>  | 0.0029 | 22.93 |
| Barium       | 138 | 0.013         | 0.0135  | 0.0121  | <b>0.0129</b>  | 0.0007 | 5.525 |
| Beryllium    | 9   | -0.0019       | -0.0021 | -0.0002 | <b>-0.0014</b> | 0.001  | 75.63 |
| Cadmium      | 111 | -0.0017       | -0.0015 | 0.0003  | <b>-0.001</b>  | 0.0011 | 109.5 |
| Cadmium      | 114 | -0.0014       | 0.0012  | 0.0006  | <b>0.0002</b>  | 0.0014 | 816.4 |
| Chromium     | 52  | 0.1028        | 0.1256  | 0.1271  | <b>0.1185</b>  | 0.0136 | 11.5  |
| Chromium     | 53  | -0.1276       | -0.1468 | -0.133  | <b>-0.1358</b> | 0.0099 | 7.284 |
| Cobalt       | 59  | -0.0069       | -0.0135 | -0.0047 | <b>-0.0084</b> | 0.0046 | 55.05 |
| Copper       | 63  | -0.0029       | -0.0062 | 0.0065  | <b>-0.0009</b> | 0.0066 | 727.3 |
| Copper       | 65  | -0.002        | -0.0019 | -0.0031 | <b>-0.0024</b> | 0.0007 | 28.45 |
| Lead         | 206 | -0.0038       | -0.0043 | -0.0047 | <b>-0.0043</b> | 0.0005 | 10.67 |
| Lead         | 207 | -0.0006       | -0.003  | -0.0033 | <b>-0.0023</b> | 0.0015 | 62.97 |
| Lead         | 208 | -0.0023       | -0.0041 | -0.0033 | <b>-0.0033</b> | 0.0009 | 27.72 |
| Manganese    | 55  | 1.012         | 0.9782  | 1.197   | <b>1.062</b>   | 0.1177 | 11.08 |
| Molybdenum   | 95  | -0.0069       | -0.0092 | -0.0069 | <b>-0.0077</b> | 0.0014 | 17.79 |
| Molybdenum   | 97  | 0.0017        | -0.008  | 0.0017  | <b>-0.0015</b> | 0.0056 | 371.6 |
| Molybdenum   | 98  | -0.0013       | -0.0046 | -0.0031 | <b>-0.003</b>  | 0.0017 | 55.73 |
| Nickel       | 60  | 0.0227        | -0.0006 | 0.0179  | <b>0.0133</b>  | 0.0123 | 92.21 |
| Nickel       | 62  | 0.0712        | 0.228   | 0.1378  | <b>0.1457</b>  | 0.0787 | 54.01 |
| Selenium     | 77  | -0.0826       | 0.0469  | -0.0495 | <b>-0.0284</b> | 0.0673 | 236.8 |
| Selenium     | 78  | -0.143        | 0.222   | 0.3548  | <b>0.1446</b>  | 0.2578 | 178.2 |
| Selenium     | 82  | 0.5421        | 0.126   | 0.0744  | <b>0.2475</b>  | 0.2565 | 103.6 |
| Silver       | 107 | -0.0074       | -0.0071 | -0.0089 | <b>-0.0078</b> | 0.001  | 12.38 |
| Silver       | 109 | -0.0084       | -0.0089 | -0.0095 | <b>-0.0089</b> | 0.0006 | 6.221 |
| Thallium     | 203 | -0.001        | -0.0012 | -0.0011 | <b>-0.0011</b> | 0.0001 | 6.925 |
| Thallium     | 205 | -0.0004       | -0.0014 | -0.001  | <b>-0.0009</b> | 0.0005 | 50.39 |
| Tin          | 118 | -0.0023       | -0.0057 | -0.0097 | <b>-0.0059</b> | 0.0037 | 62.43 |
| Tin          | 120 | -0.0004       | -0.0012 | -0.0074 | <b>-0.003</b>  | 0.0038 | 126.2 |
| Uranium      | 238 | 0.0011        | -0.0003 | -0.0003 | <b>0.0002</b>  | 0.0008 | 438.2 |
| Vanadium     | 51  | 0.0432        | 0.0407  | 0.0621  | <b>0.0487</b>  | 0.0117 | 24.04 |
| Zinc         | 66  | 0.0053        | 0.0287  | -0.0303 | <b>0.0012</b>  | 0.0297 | 2434  |
| Zinc         | 67  | -0.0455       | 0.0209  | -0.058  | <b>-0.0276</b> | 0.0424 | 153.9 |
| Zinc         | 68  | 0.0244        | 0.0671  | -0.0233 | <b>0.0227</b>  | 0.0452 | 199.1 |

**Internal Standard  
Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.019 | 1.086 | 1.089 | <b>1.019</b> | n/a | n/a |
| Scandium | 45  | 1.052 | 1.135 | 1.163 | <b>1.052</b> | n/a | n/a |
| Gallium  | 71  | 1.038 | 1.116 | 1.163 | <b>1.038</b> | n/a | n/a |
| Rhodium  | 103 | 1.036 | 1.105 | 1.12  | <b>1.036</b> | n/a | n/a |
| Indium   | 115 | 1.039 | 1.111 | 1.129 | <b>1.039</b> | n/a | n/a |
| Lutetium | 175 | 1.082 | 1.146 | 1.221 | <b>1.082</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004642-001  |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:23 |         |         |                |        |        |
| Aluminum     | 27  | 0.8629        | 0.8432  | 0.9308  | <b>0.879</b>   | 0.046  | 5.232  |
| Antimony     | 121 | -0.0304       | -0.0273 | -0.029  | <b>-0.0289</b> | 0.0015 | 5.289  |
| Antimony     | 123 | -0.0289       | -0.0289 | -0.0288 | <b>-0.0289</b> | 0.0001 | 0.3013 |
| Arsenic      | 75  | 3.633         | 3.767   | 3.653   | <b>3.684</b>   | 0.0725 | 1.968  |
| Barium       | 135 | 0.67          | 0.6554  | 0.6195  | <b>0.6483</b>  | 0.026  | 4.009  |
| Barium       | 137 | 0.6221        | 0.7366  | 0.6567  | <b>0.6718</b>  | 0.0587 | 8.744  |
| Barium       | 138 | 0.7026        | 0.6616  | 0.6665  | <b>0.6769</b>  | 0.0224 | 3.31   |
| Beryllium    | 9   | 0.004         | 0       | -0.005  | <b>-0.0003</b> | 0.0045 | 1407   |
| Cadmium      | 111 | 0.0001        | -0.0013 | -0.0002 | <b>-0.0005</b> | 0.0007 | 158.3  |
| Cadmium      | 114 | -0.0002       | 0.0012  | 0.0011  | <b>0.0007</b>  | 0.0008 | 110.8  |
| Chromium     | 52  | 0.0767        | 0.0506  | 0.0702  | <b>0.0658</b>  | 0.0136 | 20.69  |
| Chromium     | 53  | 0.5501        | 0.6033  | 0.539   | <b>0.5641</b>  | 0.0344 | 6.091  |
| Cobalt       | 59  | 0.0215        | 0.0164  | 0.0249  | <b>0.0209</b>  | 0.0043 | 20.55  |
| Copper       | 63  | 0.1488        | 0.1324  | 0.1506  | <b>0.1439</b>  | 0.01   | 6.967  |
| Copper       | 65  | 0.0553        | 0.0382  | 0.035   | <b>0.0429</b>  | 0.0109 | 25.44  |
| Lead         | 206 | -0.0034       | -0.0036 | -0.0027 | <b>-0.0033</b> | 0.0005 | 15.23  |
| Lead         | 207 | -0.0023       | -0.0054 | 0.0001  | <b>-0.0025</b> | 0.0028 | 110.4  |
| Lead         | 208 | -0.0024       | -0.0022 | -0.0029 | <b>-0.0025</b> | 0.0003 | 12.86  |
| Manganese    | 55  | 1.269         | 1.37    | 1.368   | <b>1.336</b>   | 0.0576 | 4.311  |
| Molybdenum   | 95  | 1.224         | 1.265   | 1.155   | <b>1.215</b>   | 0.0557 | 4.583  |
| Molybdenum   | 97  | 1.102         | 1.157   | 1.133   | <b>1.131</b>   | 0.0272 | 2.402  |
| Molybdenum   | 98  | 1.175         | 1.191   | 1.154   | <b>1.173</b>   | 0.0188 | 1.603  |
| Nickel       | 60  | 0.396         | 0.4073  | 0.4317  | <b>0.4117</b>  | 0.0183 | 4.439  |
| Nickel       | 62  | 0.2273        | 0.1884  | 0.2807  | <b>0.2322</b>  | 0.0463 | 19.96  |
| Selenium     | 77  | 0.2025        | -0.0256 | -0.0027 | <b>0.0581</b>  | 0.1256 | 216.2  |
| Selenium     | 78  | 0.2425        | -0.0052 | 0.256   | <b>0.1644</b>  | 0.1471 | 89.46  |
| Selenium     | 82  | 0.3092        | 0.2484  | 0.2909  | <b>0.2828</b>  | 0.0312 | 11.03  |
| Silver       | 107 | -0.0043       | -0.0014 | -0.0073 | <b>-0.0043</b> | 0.0029 | 68.03  |
| Silver       | 109 | -0.0013       | -0.0062 | -0.008  | <b>-0.0052</b> | 0.0035 | 66.79  |
| Thallium     | 203 | -0.001        | -0.0008 | -0.0002 | <b>-0.0007</b> | 0.0004 | 59.7   |
| Thallium     | 205 | 0.0002        | -0.0009 | -0.0001 | <b>-0.0003</b> | 0.0006 | 223    |
| Tin          | 118 | 0.002         | -0.0025 | -0.0018 | <b>-0.0008</b> | 0.0025 | 313.3  |
| Tin          | 120 | 0.0003        | -0.0033 | -0.0018 | <b>-0.0016</b> | 0.0018 | 114.5  |
| Uranium      | 238 | 0.0056        | 0.0087  | 0.0064  | <b>0.0069</b>  | 0.0017 | 23.97  |
| Vanadium     | 51  | 0.0785        | 0.0596  | 0.0895  | <b>0.0759</b>  | 0.0151 | 19.9   |
| Zinc         | 66  | 0.0678        | 0.0854  | 0.0605  | <b>0.0712</b>  | 0.0128 | 17.93  |
| Zinc         | 67  | 0.0886        | 0.1332  | 0.0692  | <b>0.097</b>   | 0.0328 | 33.86  |
| Zinc         | 68  | 0.2968        | 0.399   | 0.3497  | <b>0.3485</b>  | 0.0511 | 14.66  |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 1.039 | 1.125 | 1.165 | <b>1.039</b> n/a | n/a |
| Scandium | 45  | 0.929 | 1.012 | 1.08  | <b>0.929</b> n/a | n/a |
| Gallium  | 71  | 1.065 | 1.18  | 1.247 | <b>1.065</b> n/a | n/a |
| Rhodium  | 103 | 1.068 | 1.196 | 1.219 | <b>1.068</b> n/a | n/a |
| Indium   | 115 | 1.099 | 1.176 | 1.246 | <b>1.099</b> n/a | n/a |
| Lutetium | 175 | 1.1   | 1.203 | 1.259 | <b>1.1</b> n/a   | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004642-001D |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:27 |         |         |                |        |        |
| Aluminum     | 27  | 0.8724        | 0.8611  | 0.8995  | <b>0.8777</b>  | 0.0197 | 2.249  |
| Antimony     | 121 | -0.0317       | -0.0334 | -0.0293 | <b>-0.0314</b> | 0.0021 | 6.518  |
| Antimony     | 123 | -0.0286       | -0.029  | -0.0306 | <b>-0.0294</b> | 0.0011 | 3.59   |
| Arsenic      | 75  | 3.774         | 3.633   | 3.728   | <b>3.712</b>   | 0.0717 | 1.933  |
| Barium       | 135 | 0.6202        | 0.6847  | 0.6543  | <b>0.6531</b>  | 0.0323 | 4.941  |
| Barium       | 137 | 0.6952        | 0.6648  | 0.656   | <b>0.672</b>   | 0.0205 | 3.057  |
| Barium       | 138 | 0.6598        | 0.6786  | 0.6538  | <b>0.6641</b>  | 0.0129 | 1.946  |
| Beryllium    | 9   | -0.0021       | 0.0009  | 0.0022  | <b>0.0003</b>  | 0.0022 | 702.5  |
| Cadmium      | 111 | 0.0005        | 0.0039  | 0.0009  | <b>0.0018</b>  | 0.0018 | 105.3  |
| Cadmium      | 114 | -0.0007       | 0.0021  | 0.0011  | <b>0.0008</b>  | 0.0014 | 163    |
| Chromium     | 52  | 0.0904        | 0.0831  | 0.0611  | <b>0.0782</b>  | 0.0153 | 19.5   |
| Chromium     | 53  | 0.5575        | 0.4806  | 0.4846  | <b>0.5076</b>  | 0.0433 | 8.534  |
| Cobalt       | 59  | 0.0164        | 0.0178  | 0.0257  | <b>0.0199</b>  | 0.005  | 25.19  |
| Copper       | 63  | 0.1342        | 0.1354  | 0.1487  | <b>0.1394</b>  | 0.008  | 5.754  |
| Copper       | 65  | 0.0445        | 0.0383  | 0.0399  | <b>0.0409</b>  | 0.0032 | 7.801  |
| Lead         | 206 | -0.0011       | -0.0045 | -0.0008 | <b>-0.0021</b> | 0.002  | 95.28  |
| Lead         | 207 | -0.0035       | -0.0059 | 0.0002  | <b>-0.0031</b> | 0.0031 | 99.12  |
| Lead         | 208 | -0.0019       | -0.0044 | -0.0015 | <b>-0.0026</b> | 0.0016 | 61.01  |
| Manganese    | 55  | 1.239         | 1.248   | 1.252   | <b>1.246</b>   | 0.0064 | 0.5161 |
| Molybdenum   | 95  | 1.246         | 1.177   | 1.212   | <b>1.212</b>   | 0.0348 | 2.872  |
| Molybdenum   | 97  | 1.241         | 1.169   | 1.173   | <b>1.195</b>   | 0.0405 | 3.387  |
| Molybdenum   | 98  | 1.21          | 1.237   | 1.284   | <b>1.243</b>   | 0.0377 | 3.035  |
| Nickel       | 60  | 0.4344        | 0.3744  | 0.4221  | <b>0.4103</b>  | 0.0317 | 7.719  |
| Nickel       | 62  | 0.1313        | 0.1237  | 0.185   | <b>0.1467</b>  | 0.0334 | 22.77  |
| Selenium     | 77  | 0.2607        | 0.0701  | 0.0461  | <b>0.1256</b>  | 0.1176 | 93.58  |
| Selenium     | 78  | 0.3162        | 0.1907  | 0.0223  | <b>0.1764</b>  | 0.1475 | 83.6   |
| Selenium     | 82  | 0.3896        | 0.0239  | 0.3154  | <b>0.243</b>   | 0.1933 | 79.56  |
| Silver       | 107 | -0.0075       | -0.0067 | -0.0062 | <b>-0.0068</b> | 0.0006 | 9.42   |
| Silver       | 109 | -0.0104       | -0.0079 | -0.009  | <b>-0.0091</b> | 0.0012 | 13.32  |
| Thallium     | 203 | -0.0011       | -0.0013 | -0.0018 | <b>-0.0014</b> | 0.0004 | 26.5   |
| Thallium     | 205 | -0.0006       | -0.0008 | -0.0008 | <b>-0.0007</b> | 0.0001 | 18.62  |
| Tin          | 118 | -0.0056       | -0.0047 | -0.004  | <b>-0.0047</b> | 0.0008 | 16.61  |
| Tin          | 120 | 0.0033        | 0.0004  | -0.0046 | <b>-0.0003</b> | 0.004  | 1458   |
| Uranium      | 238 | 0.0072        | 0.0074  | 0.0066  | <b>0.0071</b>  | 0.0004 | 6.023  |
| Vanadium     | 51  | 0.0838        | 0.0744  | 0.0837  | <b>0.0806</b>  | 0.0054 | 6.658  |
| Zinc         | 66  | 0.1606        | 0.1057  | 0.1258  | <b>0.1307</b>  | 0.0278 | 21.25  |
| Zinc         | 67  | 0.1388        | 0.2153  | 0.2215  | <b>0.1919</b>  | 0.0461 | 24.02  |
| Zinc         | 68  | 0.4043        | 0.3994  | 0.3758  | <b>0.3932</b>  | 0.0153 | 3.884  |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.083 | 1.156 | 1.159 | <b>1.083</b> | n/a | n/a |
| Scandium | 45  | 1.012 | 1.085 | 1.082 | <b>1.012</b> | n/a | n/a |
| Gallium  | 71  | 1.195 | 1.278 | 1.294 | <b>1.195</b> | n/a | n/a |
| Rhodium  | 103 | 1.206 | 1.295 | 1.285 | <b>1.206</b> | n/a | n/a |
| Indium   | 115 | 1.171 | 1.283 | 1.254 | <b>1.171</b> | n/a | n/a |
| Lutetium | 175 | 1.189 | 1.271 | 1.262 | <b>1.189</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02

Experiment: 05-12-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #200241

| Sample Name: |     | K1004642-001S |        |        | Mean          | SD     | %RSD   |
|--------------|-----|---------------|--------|--------|---------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:32 |        |        |               |        |        |
| Aluminum     | 27  | 18.85         | 19.18  | 19.28  | <b>19.1</b>   | 0.2262 | 1.184  |
| Antimony     | 121 | 20.17         | 19.87  | 20.65  | <b>20.23</b>  | 0.3947 | 1.951  |
| Antimony     | 123 | 20.26         | 21.04  | 20.76  | <b>20.69</b>  | 0.3945 | 1.907  |
| Arsenic      | 75  | 24.45         | 24.37  | 24.9   | <b>24.57</b>  | 0.2838 | 1.155  |
| Barium       | 135 | 20.67         | 21.23  | 21.32  | <b>21.07</b>  | 0.3531 | 1.675  |
| Barium       | 137 | 20.5          | 20.81  | 20.78  | <b>20.7</b>   | 0.1698 | 0.8202 |
| Barium       | 138 | 20.74         | 21.28  | 21.04  | <b>21.02</b>  | 0.2738 | 1.303  |
| Beryllium    | 9   | 20.45         | 20.15  | 20.42  | <b>20.34</b>  | 0.1687 | 0.8293 |
| Cadmium      | 111 | 20.49         | 20.09  | 21.06  | <b>20.55</b>  | 0.4898 | 2.384  |
| Cadmium      | 114 | 19.83         | 20.11  | 19.81  | <b>19.92</b>  | 0.1679 | 0.843  |
| Chromium     | 52  | 18.25         | 18.58  | 19.22  | <b>18.69</b>  | 0.4925 | 2.635  |
| Chromium     | 53  | 18.3          | 17.86  | 19.14  | <b>18.43</b>  | 0.6513 | 3.533  |
| Cobalt       | 59  | 19.14         | 19.41  | 19.88  | <b>19.48</b>  | 0.3733 | 1.916  |
| Copper       | 63  | 19.61         | 19.88  | 19.92  | <b>19.81</b>  | 0.1675 | 0.8456 |
| Copper       | 65  | 20.15         | 19.76  | 20.69  | <b>20.2</b>   | 0.4662 | 2.308  |
| Lead         | 206 | 19.06         | 19.16  | 19.25  | <b>19.16</b>  | 0.0933 | 0.487  |
| Lead         | 207 | 18.94         | 19.7   | 18.41  | <b>19.02</b>  | 0.6491 | 3.413  |
| Lead         | 208 | 18.68         | 19.54  | 18.71  | <b>18.98</b>  | 0.4916 | 2.591  |
| Manganese    | 55  | 19.54         | 19.27  | 20.29  | <b>19.7</b>   | 0.5283 | 2.681  |
| Molybdenum   | 95  | 21.78         | 23.57  | 22.33  | <b>22.56</b>  | 0.9148 | 4.055  |
| Molybdenum   | 97  | 22.31         | 21.96  | 21.56  | <b>21.95</b>  | 0.3724 | 1.697  |
| Molybdenum   | 98  | 22.37         | 23.3   | 22.19  | <b>22.62</b>  | 0.5923 | 2.619  |
| Nickel       | 60  | 19.47         | 18.92  | 19.45  | <b>19.28</b>  | 0.3129 | 1.623  |
| Nickel       | 62  | 19.07         | 18.94  | 20.26  | <b>19.42</b>  | 0.7303 | 3.76   |
| Selenium     | 77  | 21.94         | 21.88  | 22.05  | <b>21.96</b>  | 0.0857 | 0.3905 |
| Selenium     | 78  | 21.23         | 21.05  | 21.65  | <b>21.31</b>  | 0.3068 | 1.439  |
| Selenium     | 82  | 21.65         | 22.45  | 20.89  | <b>21.66</b>  | 0.782  | 3.61   |
| Silver       | 107 | 20.05         | 20.72  | 19.82  | <b>20.2</b>   | 0.4724 | 2.339  |
| Silver       | 109 | 19.72         | 19.88  | 19.93  | <b>19.84</b>  | 0.111  | 0.5596 |
| Thallium     | 203 | 18.92         | 19.59  | 18.85  | <b>19.12</b>  | 0.4097 | 2.142  |
| Thallium     | 205 | 19.03         | 19.9   | 18.7   | <b>19.21</b>  | 0.6192 | 3.224  |
| Tin          | 118 | 0.0039        | 0.0054 | 0.0075 | <b>0.0056</b> | 0.0018 | 31.99  |
| Tin          | 120 | 0.0093        | 0.0099 | 0.012  | <b>0.0104</b> | 0.0014 | 13.47  |
| Uranium      | 238 | 19.59         | 20.34  | 19.33  | <b>19.76</b>  | 0.5228 | 2.646  |
| Vanadium     | 51  | 18.74         | 19.38  | 19.55  | <b>19.22</b>  | 0.4276 | 2.224  |
| Zinc         | 66  | 20.04         | 20.14  | 19.86  | <b>20.01</b>  | 0.143  | 0.7145 |
| Zinc         | 67  | 19.96         | 19.57  | 20.92  | <b>20.15</b>  | 0.6955 | 3.452  |
| Zinc         | 68  | 20.23         | 20.35  | 21.01  | <b>20.53</b>  | 0.4194 | 2.043  |

**Internal Standard  
Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.998 | 1.064 | 1.1   | <b>0.998</b> | n/a | n/a |
| Scandium | 45  | 0.9   | 0.996 | 1.027 | <b>0.9</b>   | n/a | n/a |
| Gallium  | 71  | 1.014 | 1.126 | 1.187 | <b>1.014</b> | n/a | n/a |
| Rhodium  | 103 | 1.032 | 1.15  | 1.127 | <b>1.032</b> | n/a | n/a |
| Indium   | 115 | 0.995 | 1.085 | 1.142 | <b>0.995</b> | n/a | n/a |
| Lutetium | 175 | 0.965 | 1.094 | 1.076 | <b>0.965</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02

Experiment: 05-12-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #200241

| Sample Name: |     | LCSW K1004642 |         |        | Mean          | SD     | %RSD   |
|--------------|-----|---------------|---------|--------|---------------|--------|--------|
| TimeStamp    |     | 5/12/10 14:37 |         |        |               |        |        |
| Aluminum     | 27  | 20.62         | 21.11   | 20.8   | <b>20.84</b>  | 0.2523 | 1.211  |
| Antimony     | 121 | 21.15         | 19.39   | 21.15  | <b>20.56</b>  | 1.014  | 4.932  |
| Antimony     | 123 | 20.88         | 20.22   | 20.83  | <b>20.64</b>  | 0.3705 | 1.795  |
| Arsenic      | 75  | 21.37         | 19.81   | 20.93  | <b>20.7</b>   | 0.8041 | 3.884  |
| Barium       | 135 | 20.82         | 19.73   | 20.34  | <b>20.3</b>   | 0.5419 | 2.67   |
| Barium       | 137 | 20.32         | 19.83   | 19.74  | <b>19.96</b>  | 0.3152 | 1.579  |
| Barium       | 138 | 20.88         | 19.98   | 20.46  | <b>20.44</b>  | 0.4485 | 2.194  |
| Beryllium    | 9   | 21.2          | 21.56   | 21.66  | <b>21.47</b>  | 0.2446 | 1.139  |
| Cadmium      | 111 | 21.04         | 19.99   | 20.11  | <b>20.38</b>  | 0.5738 | 2.816  |
| Cadmium      | 114 | 20.07         | 19.8    | 19.8   | <b>19.89</b>  | 0.1573 | 0.7907 |
| Chromium     | 52  | 21.05         | 20.74   | 21.09  | <b>20.96</b>  | 0.1943 | 0.9268 |
| Chromium     | 53  | 20.19         | 20.55   | 19.64  | <b>20.13</b>  | 0.4582 | 2.276  |
| Cobalt       | 59  | 21.03         | 20.69   | 21.57  | <b>21.1</b>   | 0.4462 | 2.115  |
| Copper       | 63  | 21.51         | 21.24   | 21.82  | <b>21.52</b>  | 0.2908 | 1.351  |
| Copper       | 65  | 22.05         | 21.35   | 21.36  | <b>21.59</b>  | 0.4015 | 1.86   |
| Lead         | 206 | 20.74         | 20.48   | 19.97  | <b>20.39</b>  | 0.3905 | 1.915  |
| Lead         | 207 | 20.93         | 20.02   | 20.1   | <b>20.35</b>  | 0.5041 | 2.477  |
| Lead         | 208 | 20.49         | 20.12   | 20.02  | <b>20.21</b>  | 0.2495 | 1.235  |
| Manganese    | 55  | 21.1          | 20.97   | 20.97  | <b>21.01</b>  | 0.0763 | 0.363  |
| Molybdenum   | 95  | 20.58         | 20.48   | 21.5   | <b>20.85</b>  | 0.5599 | 2.685  |
| Molybdenum   | 97  | 20.58         | 20.27   | 19.98  | <b>20.28</b>  | 0.3002 | 1.481  |
| Molybdenum   | 98  | 20.57         | 19.89   | 20.73  | <b>20.4</b>   | 0.4441 | 2.177  |
| Nickel       | 60  | 21.34         | 19.94   | 21.08  | <b>20.79</b>  | 0.7471 | 3.594  |
| Nickel       | 62  | 21.63         | 20.77   | 20.9   | <b>21.1</b>   | 0.4662 | 2.21   |
| Selenium     | 77  | 21.65         | 20.57   | 21.03  | <b>21.08</b>  | 0.5437 | 2.579  |
| Selenium     | 78  | 21.49         | 20.41   | 21.49  | <b>21.13</b>  | 0.624  | 2.953  |
| Selenium     | 82  | 21.99         | 20.81   | 20.68  | <b>21.16</b>  | 0.7225 | 3.414  |
| Silver       | 107 | 20.67         | 20      | 20.65  | <b>20.44</b>  | 0.3832 | 1.875  |
| Silver       | 109 | 20.97         | 20.44   | 20.21  | <b>20.54</b>  | 0.39   | 1.899  |
| Thallium     | 203 | 20.56         | 19.85   | 20.61  | <b>20.34</b>  | 0.4254 | 2.091  |
| Thallium     | 205 | 20.49         | 19.59   | 19.94  | <b>20.01</b>  | 0.4507 | 2.253  |
| Tin          | 118 | 0.0032        | -0.0002 | 0.0026 | <b>0.0019</b> | 0.0018 | 95.04  |
| Tin          | 120 | 0.0027        | 0.0045  | 0.0054 | <b>0.0042</b> | 0.0014 | 33.43  |
| Uranium      | 238 | 20.22         | 19.66   | 19.8   | <b>19.89</b>  | 0.295  | 1.483  |
| Vanadium     | 51  | 20.83         | 20.58   | 21.58  | <b>20.99</b>  | 0.5198 | 2.476  |
| Zinc         | 66  | 21.54         | 20.99   | 20.68  | <b>21.07</b>  | 0.4334 | 2.057  |
| Zinc         | 67  | 20.89         | 20.33   | 20.65  | <b>20.62</b>  | 0.2816 | 1.365  |
| Zinc         | 68  | 21.29         | 20.4    | 20.91  | <b>20.87</b>  | 0.4427 | 2.122  |

#### Internal Standard Factors:

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 0.97  | 1.037 | 1.055 | <b>0.97</b> n/a  | n/a |
| Scandium | 45  | 1.014 | 1.104 | 1.116 | <b>1.014</b> n/a | n/a |
| Gallium  | 71  | 0.981 | 1.037 | 1.078 | <b>0.981</b> n/a | n/a |
| Rhodium  | 103 | 0.971 | 1.03  | 1.051 | <b>0.971</b> n/a | n/a |
| Indium   | 115 | 0.976 | 0.999 | 1.035 | <b>0.976</b> n/a | n/a |
| Lutetium | 175 | 0.974 | 1.033 | 1.064 | <b>0.974</b> n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCV2          | Mean  | SD    | %RSD  |              |        |        |
|--------------|---------------|-------|-------|-------|--------------|--------|--------|
| TimeStamp    | 5/12/10 14:41 |       |       |       |              |        |        |
| Aluminum     | 27            | 23.85 | 24    | 25.47 | <b>24.44</b> | 0.8974 | 3.672  |
| Antimony     | 121           | 25.51 | 23.87 | 24.47 | <b>24.62</b> | 0.8294 | 3.369  |
| Antimony     | 123           | 25.33 | 25.8  | 24.79 | <b>25.31</b> | 0.5074 | 2.005  |
| Arsenic      | 75            | 25.4  | 25.63 | 25.68 | <b>25.57</b> | 0.1494 | 0.5844 |
| Barium       | 135           | 25.35 | 24.95 | 25.19 | <b>25.16</b> | 0.2048 | 0.8137 |
| Barium       | 137           | 25.18 | 24.16 | 24.68 | <b>24.68</b> | 0.5073 | 2.056  |
| Barium       | 138           | 25.06 | 24.45 | 24.86 | <b>24.79</b> | 0.3075 | 1.24   |
| Beryllium    | 9             | 26.37 | 26.76 | 26.68 | <b>26.6</b>  | 0.2058 | 0.7735 |
| Cadmium      | 111           | 25.36 | 25.74 | 24.96 | <b>25.35</b> | 0.3903 | 1.54   |
| Cadmium      | 114           | 25.02 | 25.39 | 24.41 | <b>24.94</b> | 0.4923 | 1.974  |
| Chromium     | 52            | 23.83 | 22.95 | 24.17 | <b>23.65</b> | 0.6319 | 2.672  |
| Chromium     | 53            | 22.95 | 23.86 | 23.81 | <b>23.54</b> | 0.5109 | 2.17   |
| Cobalt       | 59            | 24.3  | 23.84 | 24.96 | <b>24.36</b> | 0.5654 | 2.321  |
| Copper       | 63            | 24.29 | 24.6  | 25.52 | <b>24.8</b>  | 0.6369 | 2.568  |
| Copper       | 65            | 24.37 | 25.45 | 25.93 | <b>25.25</b> | 0.7994 | 3.166  |
| Lead         | 206           | 25.78 | 24.19 | 25.76 | <b>25.24</b> | 0.9071 | 3.593  |
| Lead         | 207           | 25.47 | 24.36 | 24.73 | <b>24.85</b> | 0.568  | 2.285  |
| Lead         | 208           | 25.56 | 24.23 | 25.36 | <b>25.05</b> | 0.7219 | 2.882  |
| Manganese    | 55            | 23.59 | 23.24 | 24.98 | <b>23.94</b> | 0.9163 | 3.828  |
| Molybdenum   | 95            | 25.3  | 24.08 | 24.81 | <b>24.73</b> | 0.61   | 2.467  |
| Molybdenum   | 97            | 24.63 | 23.87 | 24.46 | <b>24.32</b> | 0.3997 | 1.644  |
| Molybdenum   | 98            | 24.23 | 24.79 | 25    | <b>24.67</b> | 0.3985 | 1.615  |
| Nickel       | 60            | 23.85 | 24.81 | 25.12 | <b>24.59</b> | 0.662  | 2.692  |
| Nickel       | 62            | 25.06 | 24.48 | 25.26 | <b>24.93</b> | 0.4064 | 1.63   |
| Selenium     | 77            | 25    | 24.38 | 26.34 | <b>25.24</b> | 1.005  | 3.981  |
| Selenium     | 78            | 25.35 | 25.64 | 26.24 | <b>25.74</b> | 0.4534 | 1.761  |
| Selenium     | 82            | 25.69 | 25.68 | 26.09 | <b>25.82</b> | 0.2332 | 0.9031 |
| Silver       | 107           | 26.01 | 25.56 | 26.15 | <b>25.91</b> | 0.3092 | 1.194  |
| Silver       | 109           | 25.41 | 25.35 | 25.02 | <b>25.26</b> | 0.21   | 0.8313 |
| Thallium     | 203           | 25.68 | 24.31 | 25.22 | <b>25.07</b> | 0.6966 | 2.779  |
| Thallium     | 205           | 25.19 | 24.74 | 25.07 | <b>25</b>    | 0.2338 | 0.9353 |
| Tin          | 118           | 24.83 | 24.6  | 25.9  | <b>25.11</b> | 0.691  | 2.752  |
| Tin          | 120           | 24.83 | 25.31 | 24.94 | <b>25.03</b> | 0.2533 | 1.012  |
| Uranium      | 238           | 25.01 | 24.49 | 24.81 | <b>24.77</b> | 0.2612 | 1.055  |
| Vanadium     | 51            | 24.25 | 23.63 | 24.64 | <b>24.17</b> | 0.5099 | 2.109  |
| Zinc         | 66            | 25.55 | 24.79 | 25.07 | <b>25.14</b> | 0.3842 | 1.528  |
| Zinc         | 67            | 24.91 | 24.1  | 25.73 | <b>24.91</b> | 0.8158 | 3.275  |
| Zinc         | 68            | 24.85 | 24.92 | 25.69 | <b>25.16</b> | 0.4679 | 1.86   |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.963 | 1.018 | 1.072 | <b>0.963</b> | n/a | n/a |
| Scandium | 45  | 0.901 | 0.988 | 1.092 | <b>0.901</b> | n/a | n/a |
| Gallium  | 71  | 0.949 | 1.024 | 1.095 | <b>0.949</b> | n/a | n/a |
| Rhodium  | 103 | 0.96  | 1.024 | 1.073 | <b>0.96</b>  | n/a | n/a |
| Indium   | 115 | 0.955 | 1     | 1.047 | <b>0.955</b> | n/a | n/a |
| Lutetium | 175 | 0.977 | 1.014 | 1.094 | <b>0.977</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCB2          | Mean    | SD      | %RSD    |                |        |       |
|--------------|---------------|---------|---------|---------|----------------|--------|-------|
| TimeStamp    | 5/12/10 14:58 |         |         |         |                |        |       |
| Aluminum     | 27            | -0.1679 | -0.168  | -0.1543 | <b>-0.1634</b> | 0.0079 | 4.833 |
| Antimony     | 121           | -0.0341 | -0.0309 | -0.0361 | <b>-0.0337</b> | 0.0026 | 7.765 |
| Antimony     | 123           | -0.0287 | -0.0334 | -0.0301 | <b>-0.0308</b> | 0.0024 | 7.842 |
| Arsenic      | 75            | 0.0771  | 0.1501  | 0.1062  | <b>0.1112</b>  | 0.0367 | 33.02 |
| Barium       | 135           | -0.0004 | 0.0027  | 0.0032  | <b>0.0018</b>  | 0.0019 | 106.4 |
| Barium       | 137           | 0.0041  | -0.0034 | 0.0034  | <b>0.0014</b>  | 0.0041 | 297.8 |
| Barium       | 138           | 0.0017  | 0.0007  | 0.0017  | <b>0.0013</b>  | 0.0006 | 44.42 |
| Beryllium    | 9             | -0.0016 | 0.0036  | -0.0009 | <b>0.0004</b>  | 0.0028 | 739.1 |
| Cadmium      | 111           | -0.0026 | 0       | -0.004  | <b>-0.0022</b> | 0.002  | 93.33 |
| Cadmium      | 114           | -0.0002 | 0.0001  | 0.0018  | <b>0.0005</b>  | 0.0011 | 199.1 |
| Chromium     | 52            | -0.0222 | -0.0175 | 0.0002  | <b>-0.0132</b> | 0.0118 | 89.78 |
| Chromium     | 53            | -0.1214 | -0.1066 | -0.1053 | <b>-0.1111</b> | 0.009  | 8.066 |
| Cobalt       | 59            | -0.0019 | -0.0026 | 0       | <b>-0.0015</b> | 0.0014 | 90.22 |
| Copper       | 63            | -0.009  | 0.0064  | 0.0097  | <b>0.0024</b>  | 0.01   | 422.5 |
| Copper       | 65            | -0.0146 | 0.0038  | -0.0043 | <b>-0.005</b>  | 0.0092 | 182.7 |
| Lead         | 206           | -0.001  | -0.0043 | 0.0025  | <b>-0.0009</b> | 0.0034 | 366.1 |
| Lead         | 207           | -0.0006 | -0.0009 | -0.0011 | <b>-0.0009</b> | 0.0003 | 30.68 |
| Lead         | 208           | -0.0011 | -0.0022 | -0.0004 | <b>-0.0012</b> | 0.0009 | 72.83 |
| Manganese    | 55            | 0.3726  | 0.3556  | 0.3381  | <b>0.3554</b>  | 0.0173 | 4.854 |
| Molybdenum   | 95            | 0.0064  | 0.0109  | 0.0044  | <b>0.0073</b>  | 0.0033 | 45.9  |
| Molybdenum   | 97            | 0.0125  | 0.0177  | 0.0151  | <b>0.0151</b>  | 0.0026 | 17.3  |
| Molybdenum   | 98            | 0.0151  | 0.0149  | 0.0103  | <b>0.0134</b>  | 0.0027 | 19.94 |
| Nickel       | 60            | -0.0071 | -0.0073 | -0.0043 | <b>-0.0063</b> | 0.0017 | 26.91 |
| Nickel       | 62            | 0.0461  | 0.1345  | 0.0961  | <b>0.0922</b>  | 0.0443 | 48.06 |
| Selenium     | 77            | -0.0532 | -0.1699 | -0.099  | <b>-0.1074</b> | 0.0588 | 54.74 |
| Selenium     | 78            | -0.0656 | 0.2428  | -0.0844 | <b>0.0309</b>  | 0.1837 | 593.9 |
| Selenium     | 82            | 0.2033  | 0.3021  | 0.2854  | <b>0.2636</b>  | 0.0529 | 20.05 |
| Silver       | 107           | -0.003  | -0.0041 | -0.0052 | <b>-0.0041</b> | 0.0011 | 26.21 |
| Silver       | 109           | -0.0058 | -0.0085 | -0.0065 | <b>-0.0069</b> | 0.0014 | 20.07 |
| Thallium     | 203           | 0.0008  | -0.0005 | -0.0004 | <b>0</b>       | 0.0007 | 3681  |
| Thallium     | 205           | 0       | 0.0001  | 0.0004  | <b>0.0002</b>  | 0.0002 | 136.6 |
| Tin          | 118           | 0.0066  | -0.0015 | 0.0043  | <b>0.0032</b>  | 0.0042 | 132.6 |
| Tin          | 120           | 0.0046  | 0.002   | -0.0007 | <b>0.0019</b>  | 0.0027 | 137.2 |
| Uranium      | 238           | 0.0002  | -0.0001 | -0.0006 | <b>-0.0002</b> | 0.0004 | 230.5 |
| Vanadium     | 51            | -0.0049 | -0.0134 | -0.0006 | <b>-0.0063</b> | 0.0065 | 104.1 |
| Zinc         | 66            | -0.0796 | -0.0461 | -0.0626 | <b>-0.0628</b> | 0.0168 | 26.73 |
| Zinc         | 67            | -0.0914 | -0.0521 | -0.0529 | <b>-0.0655</b> | 0.0224 | 34.26 |
| Zinc         | 68            | -0.0432 | -0.0344 | -0.0586 | <b>-0.0454</b> | 0.0122 | 26.95 |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.982 | 1.038 | 1.079 | <b>0.982</b> | n/a | n/a |
| Scandium | 45  | 1.012 | 1.077 | 1.144 | <b>1.012</b> | n/a | n/a |
| Gallium  | 71  | 0.994 | 1.1   | 1.124 | <b>0.994</b> | n/a | n/a |
| Rhodium  | 103 | 1.018 | 1.082 | 1.124 | <b>1.018</b> | n/a | n/a |
| Indium   | 115 | 0.999 | 1.071 | 1.145 | <b>0.999</b> | n/a | n/a |
| Lutetium | 175 | 1.015 | 1.137 | 1.151 | <b>1.015</b> | n/a | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004467-MB   |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:03 |         |         |                |        |        |
| Aluminum     | 27  | 0.1835        | 0.1259  | 0.1694  | <b>0.1596</b>  | 0.03   | 18.82  |
| Antimony     | 121 | -0.0331       | -0.0337 | -0.0326 | <b>-0.0331</b> | 0.0005 | 1.627  |
| Antimony     | 123 | -0.03         | -0.0316 | -0.0325 | <b>-0.0314</b> | 0.0013 | 4.03   |
| Arsenic      | 75  | 0.0659        | 0.1003  | 0.0844  | <b>0.0835</b>  | 0.0173 | 20.65  |
| Barium       | 135 | 0.0034        | -0.0021 | 0.0054  | <b>0.0022</b>  | 0.0039 | 177    |
| Barium       | 137 | 0.0031        | 0.0025  | 0.0046  | <b>0.0034</b>  | 0.001  | 30.86  |
| Barium       | 138 | 0.0051        | 0.0039  | 0.0034  | <b>0.0041</b>  | 0.0009 | 21.91  |
| Beryllium    | 9   | -0.0021       | -0.0046 | 0.0033  | <b>-0.0011</b> | 0.004  | 351.8  |
| Cadmium      | 111 | -0.001        | -0.0031 | -0.0007 | <b>-0.0016</b> | 0.0013 | 82.81  |
| Cadmium      | 114 | 0.0008        | 0.0013  | -0.0002 | <b>0.0006</b>  | 0.0008 | 123.3  |
| Chromium     | 52  | 0.1167        | 0.078   | 0.0965  | <b>0.0971</b>  | 0.0193 | 19.94  |
| Chromium     | 53  | -0.0899       | -0.0924 | -0.0738 | <b>-0.0854</b> | 0.0101 | 11.85  |
| Cobalt       | 59  | -0.0074       | -0.0071 | -0.0077 | <b>-0.0074</b> | 0.0003 | 4.007  |
| Copper       | 63  | -0.0001       | -0.0065 | -0.0042 | <b>-0.0036</b> | 0.0032 | 88.88  |
| Copper       | 65  | -0.01         | -0.006  | -0.0054 | <b>-0.0072</b> | 0.0025 | 34.98  |
| Lead         | 206 | -0.0048       | -0.0032 | -0.0034 | <b>-0.0038</b> | 0.0009 | 23.71  |
| Lead         | 207 | -0.0002       | -0.0009 | 0.0011  | <b>0</b>       | 0.001  | 118900 |
| Lead         | 208 | -0.0032       | -0.001  | -0.0017 | <b>-0.0019</b> | 0.0011 | 58.07  |
| Manganese    | 55  | 0.6244        | 0.6487  | 0.6505  | <b>0.6412</b>  | 0.0146 | 2.274  |
| Molybdenum   | 95  | 0.0127        | 0.0157  | 0.0074  | <b>0.0119</b>  | 0.0042 | 35.32  |
| Molybdenum   | 97  | 0.0129        | 0.0184  | 0.0213  | <b>0.0176</b>  | 0.0043 | 24.42  |
| Molybdenum   | 98  | 0.0193        | 0.0192  | 0.0185  | <b>0.019</b>   | 0.0004 | 2.209  |
| Nickel       | 60  | -0.0125       | -0.006  | -0.0036 | <b>-0.0074</b> | 0.0046 | 62.45  |
| Nickel       | 62  | 0.0091        | -0.0201 | 0.0869  | <b>0.0253</b>  | 0.0553 | 218.3  |
| Selenium     | 77  | -0.1306       | -0.0687 | -0.2278 | <b>-0.1424</b> | 0.0802 | 56.36  |
| Selenium     | 78  | -0.0512       | 0.1622  | -0.0042 | <b>0.0356</b>  | 0.1121 | 314.9  |
| Selenium     | 82  | 0.0809        | 0.2566  | 0.0609  | <b>0.1328</b>  | 0.1077 | 81.1   |
| Silver       | 107 | -0.0053       | -0.0072 | -0.0054 | <b>-0.006</b>  | 0.001  | 17.33  |
| Silver       | 109 | -0.0081       | -0.0084 | -0.0078 | <b>-0.0081</b> | 0.0003 | 3.602  |
| Thallium     | 203 | 0.0004        | -0.0005 | -0.0012 | <b>-0.0004</b> | 0.0008 | 187.9  |
| Thallium     | 205 | 0.0007        | 0       | 0.0003  | <b>0.0003</b>  | 0.0004 | 120    |
| Tin          | 118 | -0.009        | -0.0016 | 0.0008  | <b>-0.0032</b> | 0.0051 | 158.3  |
| Tin          | 120 | -0.002        | -0.0029 | 0.0003  | <b>-0.0015</b> | 0.0017 | 109.9  |
| Uranium      | 238 | -0.0007       | 0.0008  | 0.0007  | <b>0.0003</b>  | 0.0008 | 313.8  |
| Vanadium     | 51  | 0.0373        | 0.0147  | 0.0269  | <b>0.0263</b>  | 0.0113 | 42.96  |
| Zinc         | 66  | -0.0316       | -0.0733 | -0.0575 | <b>-0.0541</b> | 0.0211 | 38.92  |
| Zinc         | 67  | 0.0025        | -0.0746 | -0.1069 | <b>-0.0597</b> | 0.0562 | 94.18  |
| Zinc         | 68  | -0.0269       | -0.0228 | -0.0452 | <b>-0.0316</b> | 0.0119 | 37.68  |

**Internal Standard**

**Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.981 | 1.058 | 1.062 | <b>0.981</b> | n/a | n/a |
| Scandium | 45  | 1.112 | 1.131 | 1.147 | <b>1.112</b> | n/a | n/a |
| Gallium  | 71  | 1.03  | 1.099 | 1.11  | <b>1.03</b>  | n/a | n/a |
| Rhodium  | 103 | 1.047 | 1.128 | 1.112 | <b>1.047</b> | n/a | n/a |
| Indium   | 115 | 1.011 | 1.117 | 1.087 | <b>1.011</b> | n/a | n/a |
| Lutetium | 175 | 1.09  | 1.135 | 1.155 | <b>1.09</b>  | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

*Correction  
for mco*

| Sample Name: |     | K1004467-001  |         |         | Mean          | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|---------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:09 |         |         |               |        |        |
| Aluminum     | 27  | 870.6         | 889.9   | 866.9   | <b>875.8</b>  | 12.34  | 1.409  |
| Antimony     | 121 | 0.4079        | 0.4119  | 0.3876  | <b>0.4025</b> | 0.0131 | 3.247  |
| Antimony     | 123 | 0.3845        | 0.4147  | 0.3805  | <b>0.3932</b> | 0.0187 | 4.761  |
| Arsenic      | 75  | 2.055         | 1.994   | 1.894   | <b>1.981</b>  | 0.0811 | 4.091  |
| Barium       | 135 | 47.98         | 49.12   | 48.98   | <b>48.69</b>  | 0.6181 | 1.269  |
| Barium       | 137 | 47.9          | 48.01   | 47.85   | <b>47.92</b>  | 0.0837 | 0.1746 |
| Barium       | 138 | 48.86         | 48.4    | 48.76   | <b>48.68</b>  | 0.2442 | 0.5016 |
| Beryllium    | 9   | 0.0756        | 0.079   | 0.0683  | <b>0.0743</b> | 0.0055 | 7.368  |
| Cadmium      | 111 | 0.0673        | 0.0553  | 0.086   | <b>0.0695</b> | 0.0155 | 22.24  |
| Cadmium      | 114 | 0.0859        | 0.0896  | 0.0921  | <b>0.0892</b> | 0.0031 | 3.49   |
| Chromium     | 52  | 2.026         | 2.025   | 2.002   | <b>2.018</b>  | 0.0135 | 0.6686 |
| Chromium     | 53  | 2.391         | 2.288   | 2.093   | <b>2.258</b>  | 0.1513 | 6.704  |
| Cobalt       | 59  | 2.468         | 2.413   | 2.52    | <b>2.467</b>  | 0.0533 | 2.16   |
| Copper       | 63  | 4.484         | 4.259   | 4.268   | <b>4.337</b>  | 0.1273 | 2.934  |
| Copper       | 65  | 4.195         | 4.255   | 4.266   | <b>4.239</b>  | 0.0386 | 0.9101 |
| Lead         | 206 | 2.159         | 2.174   | 2.127   | <b>2.153</b>  | 0.0236 | 1.096  |
| Lead         | 207 | 2.217         | 2.528   | 2.393   | <b>2.379</b>  | 0.1562 | 6.564  |
| Lead         | 208 | 2.258         | 2.363   | 2.289   | <b>2.303</b>  | 0.0537 | 2.332  |
| Manganese    | 55  | 220.3         | 213.9   | 206.1   | <b>213.4</b>  | 7.095  | 3.324  |
| Molybdenum   | 95  | 28.02         | 27.49   | 28.49   | <b>28</b>     | 0.501  | 1.79   |
| Molybdenum   | 97  | 26.78         | 27.19   | 27.06   | <b>27.01</b>  | 0.2093 | 0.7749 |
| Molybdenum   | 98  | 28.38         | 26.68   | 27.44   | <b>27.5</b>   | 0.8505 | 3.093  |
| Nickel       | 60  | 5.342         | 5.084   | 5.238   | <b>5.221</b>  | 0.1302 | 2.494  |
| Nickel       | 62  | 5.067         | 4.655   | 4.636   | <b>4.786</b>  | 0.2434 | 5.086  |
| Selenium     | 77  | 0.2178        | 0.2394  | 0.2284  | <b>0.2285</b> | 0.0108 | 4.724  |
| Selenium     | 78  | 0.1241        | -0.0897 | -0.1033 | <b>-0.023</b> | 0.1275 | 555.6  |
| Selenium     | 82  | 0.2287        | 0.444   | 0.2387  | <b>0.3038</b> | 0.1215 | 39.99  |
| Silver       | 107 | 0.0168        | 0.0102  | 0.0015  | <b>0.0095</b> | 0.0076 | 80.31  |
| Silver       | 109 | 0.0085        | 0.0002  | -0.0017 | <b>0.0023</b> | 0.0054 | 231    |
| Thallium     | 203 | 0.0119        | 0.0193  | 0.0138  | <b>0.015</b>  | 0.0038 | 25.64  |
| Thallium     | 205 | 0.0149        | 0.0147  | 0.0142  | <b>0.0146</b> | 0.0003 | 2.239  |
| Tin          | 118 | 0.6122        | 0.6179  | 0.6279  | <b>0.6193</b> | 0.008  | 1.286  |
| Tin          | 120 | 0.5969        | 0.5979  | 0.598   | <b>0.5976</b> | 0.0006 | 0.102  |
| Uranium      | 238 | 6.08          | 6.342   | 6.315   | <b>6.246</b>  | 0.144  | 2.306  |
| Vanadium     | 51  | 4.104         | 3.915   | 3.984   | <b>4.001</b>  | 0.0959 | 2.396  |
| Zinc         | 66  | 7.801         | 7.627   | 7.754   | <b>7.727</b>  | 0.09   | 1.164  |
| Zinc         | 67  | 9.448         | 8.935   | 8.919   | <b>9.101</b>  | 0.3013 | 3.31   |
| Zinc         | 68  | 9.527         | 8.86    | 9.102   | <b>9.163</b>  | 0.3378 | 3.686  |

*0.0359*

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.017 | 1.13  | 1.124 | <b>1.017</b> | n/a | n/a |
| Scandium | 45  | 1.049 | 1.137 | 1.123 | <b>1.049</b> | n/a | n/a |
| Gallium  | 71  | 1.09  | 1.159 | 1.209 | <b>1.09</b>  | n/a | n/a |
| Rhodium  | 103 | 1.089 | 1.182 | 1.217 | <b>1.089</b> | n/a | n/a |
| Indium   | 115 | 1.038 | 1.15  | 1.17  | <b>1.038</b> | n/a | n/a |
| Lutetium | 175 | 0.98  | 1.097 | 1.11  | <b>0.98</b>  | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004467-001D |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:13 |         |         |                |        |        |
| Aluminum     | 27  | 881.6         | 869.1   | 871.5   | <b>874.1</b>   | 6.599  | 0.755  |
| Antimony     | 121 | 0.3983        | 0.3983  | 0.4037  | <b>0.4001</b>  | 0.0031 | 0.7785 |
| Antimony     | 123 | 0.3649        | 0.3746  | 0.3628  | <b>0.3675</b>  | 0.0063 | 1.704  |
| Arsenic      | 75  | 2.011         | 1.945   | 1.925   | <b>1.96</b>    | 0.0449 | 2.291  |
| Barium       | 135 | 49.53         | 48.97   | 46.85   | <b>48.45</b>   | 1.414  | 2.919  |
| Barium       | 137 | 47.64         | 46.77   | 46.97   | <b>47.13</b>   | 0.454  | 0.9634 |
| Barium       | 138 | 49.04         | 47.42   | 48.34   | <b>48.27</b>   | 0.8138 | 1.686  |
| Beryllium    | 9   | 0.0823        | 0.0728  | 0.0644  | <b>0.0732</b>  | 0.0089 | 12.23  |
| Cadmium      | 111 | 0.0676        | 0.0796  | 0.07    | <b>0.0724</b>  | 0.0064 | 8.776  |
| Cadmium      | 114 | 0.0905        | 0.0872  | 0.0945  | <b>0.0907</b>  | 0.0036 | 3.997  |
| Chromium     | 52  | 2.031         | 1.979   | 2.057   | <b>2.023</b>   | 0.0396 | 1.958  |
| Chromium     | 53  | 2.244         | 2.295   | 2.125   | <b>2.221</b>   | 0.0876 | 3.943  |
| Cobalt       | 59  | 2.522         | 2.48    | 2.409   | <b>2.47</b>    | 0.0573 | 2.322  |
| Copper       | 63  | 4.381         | 4.254   | 4.277   | <b>4.304</b>   | 0.0678 | 1.575  |
| Copper       | 65  | 4.268         | 4.159   | 4.204   | <b>4.21</b>    | 0.0547 | 1.298  |
| Lead         | 206 | 2.164         | 2.199   | 2.17    | <b>2.178</b>   | 0.0184 | 0.8457 |
| Lead         | 207 | 2.488         | 2.385   | 2.404   | <b>2.426</b>   | 0.0552 | 2.276  |
| Lead         | 208 | 2.376         | 2.306   | 2.314   | <b>2.332</b>   | 0.0381 | 1.635  |
| Manganese    | 55  | 214.2         | 206.1   | 205.8   | <b>208.7</b>   | 4.745  | 2.274  |
| Molybdenum   | 95  | 27.91         | 27.14   | 27.06   | <b>27.37</b>   | 0.4723 | 1.726  |
| Molybdenum   | 97  | 27.62         | 28.08   | 27.42   | <b>27.71</b>   | 0.3391 | 1.224  |
| Molybdenum   | 98  | 26.53         | 27.96   | 27.34   | <b>27.28</b>   | 0.7195 | 2.638  |
| Nickel       | 60  | 5.22          | 5.165   | 5.16    | <b>5.182</b>   | 0.0333 | 0.6424 |
| Nickel       | 62  | 4.694         | 4.942   | 4.589   | <b>4.742</b>   | 0.181  | 3.818  |
| Selenium     | 77  | 0.2657        | 0.1572  | 0.2113  | <b>0.2114</b>  | 0.0542 | 25.65  |
| Selenium     | 78  | 0.0855        | -0.0705 | -0.0698 | <b>-0.0183</b> | 0.0899 | 491.9  |
| Selenium     | 82  | 0.4263        | 0.2393  | 0.4215  | <b>0.3624</b>  | 0.1066 | 29.43  |
| Silver       | 107 | 0.0011        | -0.0004 | -0.0022 | <b>-0.0005</b> | 0.0017 | 317.1  |
| Silver       | 109 | -0.0043       | -0.0031 | -0.002  | <b>-0.0031</b> | 0.0012 | 37.37  |
| Thallium     | 203 | 0.0164        | 0.0166  | 0.0152  | <b>0.016</b>   | 0.0008 | 4.768  |
| Thallium     | 205 | 0.0149        | 0.0144  | 0.0121  | <b>0.0138</b>  | 0.0015 | 10.9   |
| Tin          | 118 | 0.608         | 0.6008  | 0.5802  | <b>0.5963</b>  | 0.0144 | 2.416  |
| Tin          | 120 | 0.5854        | 0.6097  | 0.5938  | <b>0.5963</b>  | 0.0124 | 2.073  |
| Uranium      | 238 | 6.333         | 6.145   | 6.225   | <b>6.234</b>   | 0.0946 | 1.518  |
| Vanadium     | 51  | 3.991         | 3.999   | 3.855   | <b>3.949</b>   | 0.0807 | 2.044  |
| Zinc         | 66  | 7.735         | 7.653   | 7.709   | <b>7.699</b>   | 0.0417 | 0.5416 |
| Zinc         | 67  | 9.716         | 9.382   | 9.144   | <b>9.414</b>   | 0.2874 | 3.052  |
| Zinc         | 68  | 9.223         | 9.1     | 8.933   | <b>9.086</b>   | 0.1457 | 1.603  |

0.0376

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.079 | 1.142 | 1.153 | <b>1.079</b> | n/a | n/a |
| Scandium | 45  | 1.06  | 1.148 | 1.161 | <b>1.06</b>  | n/a | n/a |
| Gallium  | 71  | 1.129 | 1.254 | 1.278 | <b>1.129</b> | n/a | n/a |
| Rhodium  | 103 | 1.108 | 1.265 | 1.279 | <b>1.108</b> | n/a | n/a |
| Indium   | 115 | 1.09  | 1.201 | 1.206 | <b>1.09</b>  | n/a | n/a |
| Lutetium | 175 | 1.041 | 1.149 | 1.169 | <b>1.041</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004467-001S |        |        | Mean          | SD     | %RSD   |
|--------------|-----|---------------|--------|--------|---------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:18 |        |        |               |        |        |
| Aluminum     | 27  | 836.6         | 849.7  | 846    | <b>844.1</b>  | 6.75   | 0.7996 |
| Antimony     | 121 | 18.92         | 19.8   | 20.47  | <b>19.73</b>  | 0.7768 | 3.937  |
| Antimony     | 123 | 19.39         | 19.6   | 19.69  | <b>19.56</b>  | 0.155  | 0.7926 |
| Arsenic      | 75  | 23.39         | 21.92  | 23.56  | <b>22.95</b>  | 0.9014 | 3.927  |
| Barium       | 135 | 68.47         | 69.79  | 69.16  | <b>69.14</b>  | 0.6576 | 0.9511 |
| Barium       | 137 | 67.26         | 68.11  | 70.2   | <b>68.52</b>  | 1.511  | 2.206  |
| Barium       | 138 | 67.27         | 71.02  | 69.35  | <b>69.21</b>  | 1.88   | 2.717  |
| Beryllium    | 9   | 21.17         | 20.76  | 20.65  | <b>20.86</b>  | 0.2768 | 1.327  |
| Cadmium      | 111 | 21.4          | 20.78  | 21.39  | <b>21.19</b>  | 0.3537 | 1.669  |
| Cadmium      | 114 | 19.81         | 20.1   | 20.65  | <b>20.19</b>  | 0.4274 | 2.117  |
| Chromium     | 52  | 21.49         | 21.61  | 21.03  | <b>21.38</b>  | 0.309  | 1.445  |
| Chromium     | 53  | 21.25         | 21.13  | 21.13  | <b>21.17</b>  | 0.0702 | 0.3314 |
| Cobalt       | 59  | 22.48         | 22.07  | 22.52  | <b>22.36</b>  | 0.2472 | 1.106  |
| Copper       | 63  | 24.08         | 23.39  | 23.79  | <b>23.75</b>  | 0.347  | 1.461  |
| Copper       | 65  | 24            | 23.87  | 24.39  | <b>24.08</b>  | 0.273  | 1.133  |
| Lead         | 206 | 21.19         | 21.76  | 20.83  | <b>21.26</b>  | 0.4694 | 2.208  |
| Lead         | 207 | 21.73         | 21.73  | 21.13  | <b>21.53</b>  | 0.3454 | 1.604  |
| Lead         | 208 | 21.21         | 21.72  | 21.29  | <b>21.41</b>  | 0.2758 | 1.288  |
| Manganese    | 55  | 230.6         | 228.3  | 228    | <b>228.9</b>  | 1.416  | 0.6185 |
| Molybdenum   | 95  | 48.56         | 48.1   | 48.27  | <b>48.31</b>  | 0.2318 | 0.4798 |
| Molybdenum   | 97  | 47.81         | 47.87  | 46.4   | <b>47.36</b>  | 0.8329 | 1.759  |
| Molybdenum   | 98  | 49.4          | 48.88  | 48.96  | <b>49.08</b>  | 0.2827 | 0.5759 |
| Nickel       | 60  | 24.07         | 24.48  | 24.46  | <b>24.34</b>  | 0.2273 | 0.9339 |
| Nickel       | 62  | 24.94         | 23.94  | 24.31  | <b>24.4</b>   | 0.5057 | 2.073  |
| Selenium     | 77  | 20.86         | 20.51  | 21.29  | <b>20.89</b>  | 0.3927 | 1.88   |
| Selenium     | 78  | 20.61         | 20.07  | 20.73  | <b>20.47</b>  | 0.355  | 1.735  |
| Selenium     | 82  | 22.21         | 20.16  | 20.83  | <b>21.06</b>  | 1.044  | 4.958  |
| Silver       | 107 | 20.31         | 20.04  | 19.91  | <b>20.09</b>  | 0.2051 | 1.021  |
| Silver       | 109 | 19.77         | 20.31  | 20.13  | <b>20.07</b>  | 0.2748 | 1.369  |
| Thallium     | 203 | 19.33         | 19.38  | 19.02  | <b>19.24</b>  | 0.1945 | 1.011  |
| Thallium     | 205 | 19.42         | 19.46  | 19.19  | <b>19.36</b>  | 0.1424 | 0.7355 |
| Tin          | 118 | 0.5653        | 0.6032 | 0.6368 | <b>0.6017</b> | 0.0358 | 5.948  |
| Tin          | 120 | 0.5598        | 0.6366 | 0.6182 | <b>0.6048</b> | 0.0401 | 6.629  |
| Uranium      | 238 | 26.33         | 27.1   | 27.02  | <b>26.82</b>  | 0.4243 | 1.582  |
| Vanadium     | 51  | 22.97         | 23.98  | 22.7   | <b>23.21</b>  | 0.6743 | 2.905  |
| Zinc         | 66  | 27.34         | 27.96  | 28.28  | <b>27.86</b>  | 0.4784 | 1.717  |
| Zinc         | 67  | 28.57         | 28.96  | 28.88  | <b>28.8</b>   | 0.2039 | 0.7079 |
| Zinc         | 68  | 28.68         | 28.39  | 28.69  | <b>28.59</b>  | 0.1722 | 0.6024 |

21.3

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.061 | 1.13  | 1.136 | <b>1.061</b> | n/a | n/a |
| Scandium | 45  | 1.067 | 1.177 | 1.124 | <b>1.067</b> | n/a | n/a |
| Gallium  | 71  | 1.111 | 1.186 | 1.221 | <b>1.111</b> | n/a | n/a |
| Rhodium  | 103 | 1.15  | 1.196 | 1.179 | <b>1.15</b>  | n/a | n/a |
| Indium   | 115 | 1.076 | 1.156 | 1.175 | <b>1.076</b> | n/a | n/a |
| Lutetium | 175 | 1.014 | 1.107 | 1.097 | <b>1.014</b> | n/a | n/a |

| Sample Name: | LCSW K1004467 | Mean   | SD     | %RSD   |               |        |        |
|--------------|---------------|--------|--------|--------|---------------|--------|--------|
| TimeStamp    | 5/12/10 15:22 |        |        |        |               |        |        |
| Aluminum     | 27            | 20.92  | 21.5   | 21.24  | <b>21.22</b>  | 0.2876 | 1.355  |
| Antimony     | 121           | 20.17  | 20.22  | 20.88  | <b>20.42</b>  | 0.3965 | 1.942  |
| Antimony     | 123           | 20.39  | 20.21  | 21.31  | <b>20.64</b>  | 0.5907 | 2.862  |
| Arsenic      | 75            | 21.54  | 20.87  | 20.8   | <b>21.07</b>  | 0.4052 | 1.923  |
| Barium       | 135           | 20.68  | 20.39  | 20.26  | <b>20.44</b>  | 0.2152 | 1.053  |
| Barium       | 137           | 20.56  | 19.64  | 19.87  | <b>20.02</b>  | 0.4759 | 2.377  |
| Barium       | 138           | 20.28  | 20.44  | 20.5   | <b>20.41</b>  | 0.1147 | 0.5622 |
| Beryllium    | 9             | 21.86  | 21.71  | 20.91  | <b>21.49</b>  | 0.508  | 2.363  |
| Cadmium      | 111           | 20.94  | 20.88  | 21.52  | <b>21.11</b>  | 0.3566 | 1.689  |
| Cadmium      | 114           | 20.36  | 19.47  | 20.32  | <b>20.05</b>  | 0.5045 | 2.516  |
| Chromium     | 52            | 20.61  | 21.24  | 21.05  | <b>20.96</b>  | 0.3224 | 1.538  |
| Chromium     | 53            | 19.99  | 20.94  | 20.44  | <b>20.46</b>  | 0.4722 | 2.308  |
| Cobalt       | 59            | 21.03  | 21.28  | 20.68  | <b>21</b>     | 0.3044 | 1.449  |
| Copper       | 63            | 21.72  | 21.28  | 21.07  | <b>21.36</b>  | 0.3289 | 1.54   |
| Copper       | 65            | 21.78  | 21.23  | 21.09  | <b>21.37</b>  | 0.3672 | 1.719  |
| Lead         | 206           | 20.87  | 20.87  | 19.65  | <b>20.46</b>  | 0.7046 | 3.444  |
| Lead         | 207           | 21.05  | 19.96  | 19.89  | <b>20.3</b>   | 0.6543 | 3.223  |
| Lead         | 208           | 20.69  | 20.41  | 19.81  | <b>20.3</b>   | 0.4516 | 2.224  |
| Manganese    | 55            | 21.13  | 21.35  | 21.09  | <b>21.19</b>  | 0.1384 | 0.653  |
| Molybdenum   | 95            | 21.07  | 20.52  | 21.01  | <b>20.87</b>  | 0.3004 | 1.44   |
| Molybdenum   | 97            | 21.85  | 21.31  | 20.66  | <b>21.27</b>  | 0.5961 | 2.802  |
| Molybdenum   | 98            | 21.52  | 20.79  | 20.34  | <b>20.88</b>  | 0.5973 | 2.86   |
| Nickel       | 60            | 21.4   | 20.98  | 20.32  | <b>20.9</b>   | 0.5451 | 2.608  |
| Nickel       | 62            | 21.48  | 21.24  | 20.43  | <b>21.05</b>  | 0.5512 | 2.619  |
| Selenium     | 77            | 21.49  | 21.55  | 20.82  | <b>21.29</b>  | 0.4081 | 1.917  |
| Selenium     | 78            | 21.52  | 21.93  | 21.43  | <b>21.62</b>  | 0.2657 | 1.229  |
| Selenium     | 82            | 21.93  | 20.89  | 21.39  | <b>21.4</b>   | 0.5228 | 2.442  |
| Silver       | 107           | 21.62  | 20.58  | 20.72  | <b>20.97</b>  | 0.5634 | 2.686  |
| Silver       | 109           | 20.89  | 20.54  | 20.74  | <b>20.72</b>  | 0.1743 | 0.8411 |
| Thallium     | 203           | 20.33  | 20.56  | 19.86  | <b>20.25</b>  | 0.3602 | 1.779  |
| Thallium     | 205           | 20.57  | 20.87  | 19.92  | <b>20.45</b>  | 0.4828 | 2.36   |
| Tin          | 118           | 0.009  | 0.0024 | 0.0017 | <b>0.0044</b> | 0.004  | 91.6   |
| Tin          | 120           | 0.0076 | 0.0093 | 0.0097 | <b>0.0089</b> | 0.0011 | 12.51  |
| Uranium      | 238           | 20.55  | 20.43  | 19.78  | <b>20.25</b>  | 0.4152 | 2.05   |
| Vanadium     | 51            | 20.79  | 20.94  | 20.46  | <b>20.73</b>  | 0.2456 | 1.185  |
| Zinc         | 66            | 22.13  | 21.39  | 21.63  | <b>21.72</b>  | 0.3742 | 1.723  |
| Zinc         | 67            | 22.07  | 21.37  | 20.48  | <b>21.31</b>  | 0.794  | 3.727  |
| Zinc         | 68            | 21.31  | 21     | 20.57  | <b>20.96</b>  | 0.3712 | 1.771  |

**Internal Standard  
Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 0.987 | 1.032 | 1.042 | <b>0.987</b> | n/a | n/a |
| Scandium | 45  | 1.054 | 1.133 | 1.107 | <b>1.054</b> | n/a | n/a |
| Gallium  | 71  | 1.029 | 1.071 | 1.065 | <b>1.029</b> | n/a | n/a |
| Rhodium  | 103 | 1.027 | 1.062 | 1.051 | <b>1.027</b> | n/a | n/a |
| Indium   | 115 | 0.985 | 1.008 | 1.034 | <b>0.985</b> | n/a | n/a |
| Lutetium | 175 | 1.003 | 1.065 | 1.059 | <b>1.003</b> | n/a | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | 50 ppb Mo     |         |         | Mean    | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|---------|--------|--------|
| TimeStamp    |     | 5/12/10 15:30 |         |         |         |        |        |
| Aluminum     | 27  | 4.131         | 4.114   | 4.148   | 4.131   | 0.017  | 0.4127 |
| Antimony     | 121 | -0.0115       | -0.014  | -0.0203 | -0.0153 | 0.0045 | 29.72  |
| Antimony     | 123 | -0.0123       | -0.016  | -0.02   | -0.0161 | 0.0039 | 23.98  |
| Arsenic      | 75  | -0.0485       | 0.0159  | 0.1328  | 0.0334  | 0.0919 | 275    |
| Barium       | 135 | 0.0354        | 0.0394  | 0.04    | 0.0383  | 0.0025 | 6.481  |
| Barium       | 137 | 0.0445        | 0.0417  | 0.0453  | 0.0438  | 0.0018 | 4.219  |
| Barium       | 138 | 0.035         | 0.0372  | 0.0369  | 0.0364  | 0.0012 | 3.351  |
| Beryllium    | 9   | 0.0065        | 0       | -0.001  | 0.0018  | 0.0041 | 221.7  |
| Cadmium      | 111 | 0.0751        | 0.0734  | 0.074   | 0.0742  | 0.0009 | 1.165  |
| Cadmium      | 114 | 0.0519        | 0.0476  | 0.0543  | 0.0512  | 0.0034 | 6.639  |
| Chromium     | 52  | 0.0152        | 0.0029  | 0.0195  | 0.0125  | 0.0086 | 68.9   |
| Chromium     | 53  | -0.1692       | -0.1527 | -0.1941 | -0.172  | 0.0209 | 12.12  |
| Cobalt       | 59  | -0.0025       | 0.0009  | 0.0037  | 0.0007  | 0.0031 | 444.3  |
| Copper       | 63  | 5.817         | 5.813   | 5.921   | 5.85    | 0.0612 | 1.047  |
| Copper       | 65  | 6.045         | 6.088   | 5.677   | 5.936   | 0.226  | 3.807  |
| Lead         | 206 | 0.1486        | 0.1605  | 0.18    | 0.163   | 0.0159 | 9.721  |
| Lead         | 207 | 0.1734        | 0.177   | 0.1821  | 0.1775  | 0.0044 | 2.478  |
| Lead         | 208 | 0.1684        | 0.1702  | 0.1863  | 0.175   | 0.0099 | 5.648  |
| Manganese    | 55  | 1.509         | 1.436   | 1.359   | 1.434   | 0.075  | 5.23   |
| Molybdenum   | 95  | 57.39         | 57.69   | 59.96   | 58.35   | 1.407  | 2.412  |
| Molybdenum   | 97  | 56.08         | 55.89   | 55.91   | 55.96   | 0.1025 | 0.1831 |
| Molybdenum   | 98  | 58.37         | 56.23   | 56.57   | 57.06   | 1.152  | 2.019  |
| Nickel       | 60  | 0.1677        | 0.1684  | 0.1759  | 0.1707  | 0.0045 | 2.651  |
| Nickel       | 62  | 0.1703        | 0.1153  | 0.1146  | 0.1334  | 0.0319 | 23.94  |
| Selenium     | 77  | -0.0584       | 0.0152  | -0.0901 | -0.0444 | 0.054  | 121.6  |
| Selenium     | 78  | -0.0113       | 0.1776  | -0.2157 | -0.0165 | 0.1967 | 1194   |
| Selenium     | 82  | -0.2853       | -0.0129 | 0.2944  | -0.0013 | 0.29   | 23020  |
| Silver       | 107 | 0.0069        | 0.0085  | 0.0034  | 0.0063  | 0.0026 | 42.27  |
| Silver       | 109 | 0.0061        | 0.0057  | 0.0026  | 0.0048  | 0.0019 | 40.29  |
| Thallium     | 203 | 0.003         | 0.0041  | 0.003   | 0.0034  | 0.0007 | 19.4   |
| Thallium     | 205 | 0.0059        | 0.0029  | 0.003   | 0.0039  | 0.0017 | 43.74  |
| Tin          | 118 | 0.0408        | 0.0301  | 0.0377  | 0.0362  | 0.0055 | 15.15  |
| Tin          | 120 | 0.0411        | 0.0367  | 0.0289  | 0.0356  | 0.0062 | 17.45  |
| Uranium      | 238 | 0.0046        | 0.0057  | 0.0046  | 0.005   | 0.0006 | 12.68  |
| Vanadium     | 51  | -0.0082       | -0.0112 | 0.0004  | -0.0064 | 0.006  | 94.42  |
| Zinc         | 66  | 3.249         | 3.165   | 3.112   | 3.175   | 0.0692 | 2.18   |
| Zinc         | 67  | 2.874         | 2.633   | 2.736   | 2.748   | 0.1208 | 4.396  |
| Zinc         | 68  | 3.23          | 3.023   | 2.951   | 3.068   | 0.1446 | 4.712  |

$\frac{0.0742 \text{ cd}^m}{58.35 \text{ mo}^m} = 1.2716 \text{ E}^{-3}$

Internal Standard Factors:

|          |     |       |       |       |       |     |     |
|----------|-----|-------|-------|-------|-------|-----|-----|
| Lithium  | 6   | 0.93  | 1.035 | 1.064 | 0.93  | n/a | n/a |
| Scandium | 45  | 0.936 | 1.077 | 1.115 | 0.936 | n/a | n/a |
| Gallium  | 71  | 0.968 | 1.08  | 1.113 | 0.968 | n/a | n/a |
| Rhodium  | 103 | 0.937 | 1.041 | 1.118 | 0.937 | n/a | n/a |
| Indium   | 115 | 0.957 | 1.074 | 1.081 | 0.957 | n/a | n/a |
| Lutetium | 175 | 0.969 | 1.089 | 1.201 | 0.969 | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004496-001  |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:36 |         |         |                |        |        |
| Aluminum     | 27  | 3.496         | 3.567   | 3.516   | <b>3.527</b>   | 0.0366 | 1.039  |
| Antimony     | 121 | 0.882         | 0.8338  | 0.9173  | <b>0.8777</b>  | 0.0419 | 4.777  |
| Antimony     | 123 | 0.8286        | 0.9226  | 0.8417  | <b>0.8643</b>  | 0.0509 | 5.887  |
| Arsenic      | 75  | 15.68         | 15.22   | 15.01   | <b>15.3</b>    | 0.3426 | 2.239  |
| Barium       | 135 | 28.2          | 29.11   | 28.84   | <b>28.71</b>   | 0.4667 | 1.625  |
| Barium       | 137 | 28.04         | 29.19   | 28.08   | <b>28.43</b>   | 0.6518 | 2.292  |
| Barium       | 138 | 29.38         | 29.17   | 28.71   | <b>29.09</b>   | 0.343  | 1.179  |
| Beryllium    | 9   | -0.0003       | -0.0002 | 0.0015  | <b>0.0003</b>  | 0.001  | 310.4  |
| Cadmium      | 111 | 0.0183        | 0.0174  | 0.0281  | <b>0.0213</b>  | 0.0059 | 27.91  |
| Cadmium      | 114 | 0.0216        | 0.0198  | 0.0159  | <b>0.0191</b>  | 0.0029 | 15.26  |
| Chromium     | 52  | 0.5019        | 0.4921  | 0.4844  | <b>0.4928</b>  | 0.0088 | 1.784  |
| Chromium     | 53  | 1.383         | 1.307   | 1.333   | <b>1.341</b>   | 0.0388 | 2.896  |
| Cobalt       | 59  | 0.0967        | 0.0915  | 0.085   | <b>0.091</b>   | 0.0058 | 6.418  |
| Copper       | 63  | 1.335         | 1.281   | 1.275   | <b>1.297</b>   | 0.0332 | 2.561  |
| Copper       | 65  | 1.188         | 1.194   | 1.238   | <b>1.207</b>   | 0.0276 | 2.285  |
| Lead         | 206 | 0.0255        | 0.0224  | 0.0214  | <b>0.0231</b>  | 0.0021 | 9.279  |
| Lead         | 207 | 0.03          | 0.0284  | 0.0229  | <b>0.0271</b>  | 0.0037 | 13.78  |
| Lead         | 208 | 0.0267        | 0.0267  | 0.0255  | <b>0.0263</b>  | 0.0007 | 2.6    |
| Manganese    | 55  | 653.2         | 622.1   | 625.7   | <b>633.7</b>   | 17     | 2.683  |
| Molybdenum   | 95  | 4.472         | 4.367   | 4.189   | <b>4.343</b>   | 0.1428 | 3.288  |
| Molybdenum   | 97  | 4.475         | 4.103   | 4.332   | <b>4.303</b>   | 0.1878 | 4.365  |
| Molybdenum   | 98  | 4.379         | 4.316   | 4.272   | <b>4.322</b>   | 0.0539 | 1.246  |
| Nickel       | 60  | 1.024         | 1.051   | 1.006   | <b>1.027</b>   | 0.0224 | 2.183  |
| Nickel       | 62  | 1.047         | 1.463   | 1.374   | <b>1.295</b>   | 0.219  | 16.91  |
| Selenium     | 77  | 0.2963        | 0.2839  | 0.1434  | <b>0.2412</b>  | 0.085  | 35.23  |
| Selenium     | 78  | -0.0176       | 0.0329  | 0.5115  | <b>0.1756</b>  | 0.292  | 166.3  |
| Selenium     | 82  | 0.4556        | 0.2639  | 0.1924  | <b>0.3039</b>  | 0.1361 | 44.78  |
| Silver       | 107 | 0.0047        | 0.002   | 0.0028  | <b>0.0032</b>  | 0.0014 | 44.71  |
| Silver       | 109 | 0.0037        | -0.0052 | -0.0028 | <b>-0.0014</b> | 0.0046 | 316.9  |
| Thallium     | 203 | 0             | -0.0008 | 0.0003  | <b>-0.0002</b> | 0.0006 | 351.3  |
| Thallium     | 205 | 0.001         | 0.0021  | 0.0017  | <b>0.0016</b>  | 0.0006 | 34.44  |
| Tin          | 118 | 0.0046        | 0.0052  | 0.0039  | <b>0.0046</b>  | 0.0007 | 14.93  |
| Tin          | 120 | 0.0002        | 0.0056  | 0.0041  | <b>0.0033</b>  | 0.0028 | 85.02  |
| Uranium      | 238 | 0.0056        | 0.0064  | 0.0046  | <b>0.0055</b>  | 0.0009 | 17.06  |
| Vanadium     | 51  | 0.2015        | 0.211   | 0.1511  | <b>0.1879</b>  | 0.0322 | 17.13  |
| Zinc         | 66  | 4.142         | 4.164   | 4.094   | <b>4.133</b>   | 0.0358 | 0.8658 |
| Zinc         | 67  | 4.942         | 4.953   | 4.907   | <b>4.934</b>   | 0.0237 | 0.4802 |
| Zinc         | 68  | 5.206         | 5.135   | 5.192   | <b>5.178</b>   | 0.0376 | 0.7259 |

Internal Standard  
Factors:

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.085 | 1.197 | 1.232 | <b>1.085</b> | n/a | n/a |
| Scandium | 45  | 0.967 | 1.055 | 1.109 | <b>0.967</b> | n/a | n/a |
| Gallium  | 71  | 1.234 | 1.419 | 1.457 | <b>1.234</b> | n/a | n/a |
| Rhodium  | 103 | 1.222 | 1.373 | 1.417 | <b>1.222</b> | n/a | n/a |
| Indium   | 115 | 1.165 | 1.333 | 1.348 | <b>1.165</b> | n/a | n/a |
| Lutetium | 175 | 1.119 | 1.24  | 1.259 | <b>1.119</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004499-001  |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:41 |         |         |                |        |        |
| Aluminum     | 27  | 42.99         | 43.46   | 43.96   | <b>43.47</b>   | 0.4847 | 1.115  |
| Antimony     | 121 | 0.2863        | 0.3061  | 0.2817  | <b>0.2914</b>  | 0.0129 | 4.443  |
| Antimony     | 123 | 0.2915        | 0.2675  | 0.2689  | <b>0.276</b>   | 0.0135 | 4.877  |
| Arsenic      | 75  | 2.107         | 2.187   | 1.73    | <b>2.008</b>   | 0.2444 | 12.17  |
| Barium       | 135 | 319.8         | 317.8   | 316.2   | <b>318</b>     | 1.806  | 0.5681 |
| Barium       | 137 | 317.2         | 328.7   | 309.4   | <b>318.4</b>   | 9.732  | 3.056  |
| Barium       | 138 | 302.4         | 313.6   | 302     | <b>306</b>     | 6.593  | 2.155  |
| Beryllium    | 9   | 0.0362        | 0.0295  | 0.028   | <b>0.0313</b>  | 0.0044 | 13.93  |
| Cadmium      | 111 | 0.0158        | 0.0135  | 0.0098  | <b>0.013</b>   | 0.003  | 23.27  |
| Cadmium      | 114 | 0.0115        | 0.0144  | 0.0127  | <b>0.0128</b>  | 0.0014 | 11.27  |
| Chromium     | 52  | 2.785         | 2.883   | 2.738   | <b>2.802</b>   | 0.074  | 2.639  |
| Chromium     | 53  | 1.76          | 1.968   | 1.884   | <b>1.871</b>   | 0.1047 | 5.596  |
| Cobalt       | 59  | 0.062         | 0.0646  | 0.062   | <b>0.0629</b>  | 0.0015 | 2.362  |
| Copper       | 63  | 7.031         | 7.137   | 6.871   | <b>7.013</b>   | 0.1339 | 1.91   |
| Copper       | 65  | 6.714         | 6.991   | 6.83    | <b>6.845</b>   | 0.1393 | 2.035  |
| Lead         | 206 | 1.132         | 1.114   | 1.07    | <b>1.105</b>   | 0.0317 | 2.866  |
| Lead         | 207 | 1.266         | 1.282   | 1.22    | <b>1.256</b>   | 0.0322 | 2.561  |
| Lead         | 208 | 1.387         | 1.384   | 1.35    | <b>1.373</b>   | 0.0204 | 1.489  |
| Manganese    | 55  | 4.437         | 4.614   | 4.472   | <b>4.508</b>   | 0.0938 | 2.081  |
| Molybdenum   | 95  | 0.2311        | 0.1949  | 0.2061  | <b>0.2107</b>  | 0.0186 | 8.802  |
| Molybdenum   | 97  | 0.2119        | 0.2158  | 0.1818  | <b>0.2032</b>  | 0.0186 | 9.135  |
| Molybdenum   | 98  | 0.2269        | 0.2155  | 0.218   | <b>0.2201</b>  | 0.006  | 2.73   |
| Nickel       | 60  | 1.952         | 1.868   | 1.822   | <b>1.881</b>   | 0.066  | 3.51   |
| Nickel       | 62  | 1.738         | 1.89    | 2.012   | <b>1.88</b>    | 0.1372 | 7.3    |
| Selenium     | 77  | 12.69         | 13.15   | 13.36   | <b>13.06</b>   | 0.3398 | 2.601  |
| Selenium     | 78  | 9.596         | 9.735   | 10.33   | <b>9.887</b>   | 0.3905 | 3.95   |
| Selenium     | 82  | 10.62         | 11.01   | 9.973   | <b>10.54</b>   | 0.5256 | 4.989  |
| Silver       | 107 | -0.0036       | -0.0018 | -0.0037 | <b>-0.003</b>  | 0.0011 | 35.55  |
| Silver       | 109 | -0.0064       | -0.0054 | -0.004  | <b>-0.0053</b> | 0.0012 | 22.88  |
| Thallium     | 203 | -0.0003       | 0.0001  | -0.001  | <b>-0.0004</b> | 0.0006 | 142    |
| Thallium     | 205 | -0.0003       | 0.0011  | -0.0001 | <b>0.0002</b>  | 0.0008 | 310.8  |
| Tin          | 118 | 0.0447        | 0.0517  | 0.0444  | <b>0.0469</b>  | 0.0041 | 8.777  |
| Tin          | 120 | 0.0552        | 0.0491  | 0.0624  | <b>0.0556</b>  | 0.0066 | 11.95  |
| Uranium      | 238 | 0.0769        | 0.0711  | 0.0657  | <b>0.0712</b>  | 0.0056 | 7.852  |
| Vanadium     | 51  | 0.3531        | 0.3159  | 0.3179  | <b>0.329</b>   | 0.0209 | 6.351  |
| Zinc         | 66  | 61.91         | 62.03   | 61.1    | <b>61.68</b>   | 0.5047 | 0.8182 |
| Zinc         | 67  | 66.58         | 67.13   | 66.76   | <b>66.82</b>   | 0.2789 | 0.4174 |
| Zinc         | 68  | 66.68         | 67.5    | 66.17   | <b>66.78</b>   | 0.6728 | 1.007  |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.036 | 1.122 | 1.135 | <b>1.036</b> | n/a | n/a |
| Scandium | 45  | 1.146 | 1.199 | 1.231 | <b>1.146</b> | n/a | n/a |
| Gallium  | 71  | 0.862 | 0.956 | 0.949 | <b>0.862</b> | n/a | n/a |
| Rhodium  | 103 | 1.069 | 1.182 | 1.18  | <b>1.069</b> | n/a | n/a |
| Indium   | 115 | 1.051 | 1.148 | 1.128 | <b>1.051</b> | n/a | n/a |
| Lutetium | 175 | 0.983 | 1.081 | 1.076 | <b>0.983</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004502-005  |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:49 |         |         |                |        |        |
| Aluminum     | 27  | 25.05         | 25.52   | 25.54   | <b>25.37</b>   | 0.2744 | 1.081  |
| Antimony     | 121 | 0.3188        | 0.3395  | 0.3354  | <b>0.3312</b>  | 0.011  | 3.317  |
| Antimony     | 123 | 0.2921        | 0.301   | 0.3769  | <b>0.3233</b>  | 0.0466 | 14.42  |
| Arsenic      | 75  | 0.3219        | -0.0412 | 0.0882  | <b>0.1229</b>  | 0.1841 | 149.7  |
| Barium       | 135 | 8.743         | 8.457   | 8.558   | <b>8.586</b>   | 0.1449 | 1.687  |
| Barium       | 137 | 8.699         | 8.398   | 8.467   | <b>8.521</b>   | 0.1572 | 1.845  |
| Barium       | 138 | 8.726         | 8.633   | 8.665   | <b>8.674</b>   | 0.0474 | 0.5467 |
| Beryllium    | 9   | 0.0039        | -0.0001 | 0.0058  | <b>0.0032</b>  | 0.003  | 94.25  |
| Cadmium      | 111 | 0.4678        | 0.4595  | 0.4535  | <b>0.4603</b>  | 0.0072 | 1.563  |
| Cadmium      | 114 | 0.3895        | 0.3812  | 0.3865  | <b>0.3857</b>  | 0.0042 | 1.089  |
| Chromium     | 52  | 0.4369        | 0.4275  | 0.4167  | <b>0.4271</b>  | 0.0101 | 2.365  |
| Chromium     | 53  | 14.66         | 14.62   | 14.85   | <b>14.71</b>   | 0.1251 | 0.8508 |
| Cobalt       | 59  | 3.317         | 3.315   | 3.269   | <b>3.301</b>   | 0.0271 | 0.8224 |
| Copper       | 63  | 7.285         | 7.827   | 7.611   | <b>7.574</b>   | 0.2728 | 3.601  |
| Copper       | 65  | 4.26          | 4.38    | 4.407   | <b>4.349</b>   | 0.0781 | 1.797  |
| Lead         | 206 | 2.584         | 2.621   | 2.419   | <b>2.541</b>   | 0.1079 | 4.244  |
| Lead         | 207 | 2.839         | 2.642   | 2.671   | <b>2.717</b>   | 0.1066 | 3.922  |
| Lead         | 208 | 2.734         | 2.62    | 2.574   | <b>2.643</b>   | 0.0822 | 3.109  |
| Manganese    | 55  | 28.14         | 26.39   | 25.59   | <b>26.71</b>   | 1.305  | 4.886  |
| Molybdenum   | 95  | 181.3         | 178.4   | 179.8   | <b>179.8</b>   | 1.425  | 0.7923 |
| Molybdenum   | 97  | 175.1         | 179.3   | 179     | <b>177.8</b>   | 2.352  | 1.323  |
| Molybdenum   | 98  | 184.5         | 178.8   | 181.9   | <b>181.7</b>   | 2.849  | 1.568  |
| Nickel       | 60  | 5.041         | 4.94    | 5.033   | <b>5.005</b>   | 0.0561 | 1.121  |
| Nickel       | 62  | 3.769         | 3.838   | 3.811   | <b>3.806</b>   | 0.0346 | 0.9101 |
| Selenium     | 77  | 9.282         | 9.973   | 9.513   | <b>9.589</b>   | 0.3514 | 3.664  |
| Selenium     | 78  | 0.5659        | 0.7376  | 0.3169  | <b>0.5401</b>  | 0.2116 | 39.17  |
| Selenium     | 82  | 1.192         | 0.8419  | 0.9062  | <b>0.9801</b>  | 0.1865 | 19.03  |
| Silver       | 107 | -0.0068       | -0.0078 | -0.007  | <b>-0.0072</b> | 0.0005 | 7.299  |
| Silver       | 109 | -0.0088       | -0.007  | -0.0114 | <b>-0.0091</b> | 0.0022 | 24.37  |
| Thallium     | 203 | 0.0042        | 0.0028  | 0.0013  | <b>0.0028</b>  | 0.0014 | 52.12  |
| Thallium     | 205 | 0.0033        | 0.0025  | 0.0022  | <b>0.0027</b>  | 0.0006 | 21.75  |
| Tin          | 118 | 0.0221        | 0.0124  | 0.0208  | <b>0.0184</b>  | 0.0053 | 28.58  |
| Tin          | 120 | 0.0342        | 0.0284  | 0.0226  | <b>0.0284</b>  | 0.0058 | 20.51  |
| Uranium      | 238 | 0.0779        | 0.0745  | 0.0747  | <b>0.0757</b>  | 0.0019 | 2.488  |
| Vanadium     | 51  | 0.6392        | 0.551   | 0.3789  | <b>0.523</b>   | 0.1324 | 25.3   |
| Zinc         | 66  | 32.32         | 32.59   | 32.6    | <b>32.5</b>    | 0.1597 | 0.4913 |
| Zinc         | 67  | 32.25         | 33.4    | 33.22   | <b>32.95</b>   | 0.6181 | 1.876  |
| Zinc         | 68  | 33.93         | 33.53   | 32.82   | <b>33.43</b>   | 0.5631 | 1.685  |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 1.462 | 1.638 | 1.694 | <b>1.462</b> n/a | n/a |
| Scandium | 45  | 1.001 | 1.097 | 1.125 | <b>1.001</b> n/a | n/a |
| Gallium  | 71  | 1.537 | 1.795 | 1.831 | <b>1.537</b> n/a | n/a |
| Rhodium  | 103 | 1.464 | 1.639 | 1.728 | <b>1.464</b> n/a | n/a |
| Indium   | 115 | 1.294 | 1.488 | 1.527 | <b>1.294</b> n/a | n/a |
| Lutetium | 175 | 1.139 | 1.261 | 1.322 | <b>1.139</b> n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: |     | K1004508-001  |         |         | Mean           | SD     | %RSD   |
|--------------|-----|---------------|---------|---------|----------------|--------|--------|
| TimeStamp    |     | 5/12/10 15:56 |         |         |                |        |        |
| Aluminum     | 27  | 29.63         | 29.91   | 30.06   | <b>29.87</b>   | 0.2206 | 0.7388 |
| Antimony     | 121 | 0.0388        | 0.034   | 0.0205  | <b>0.0311</b>  | 0.0095 | 30.61  |
| Antimony     | 123 | 0.0256        | 0.0263  | 0.0363  | <b>0.0294</b>  | 0.006  | 20.35  |
| Arsenic      | 75  | 1.378         | 1.288   | 1.478   | <b>1.381</b>   | 0.0949 | 6.872  |
| Barium       | 135 | 1.657         | 1.702   | 1.708   | <b>1.689</b>   | 0.0281 | 1.662  |
| Barium       | 137 | 1.708         | 1.741   | 1.664   | <b>1.705</b>   | 0.0388 | 2.279  |
| Barium       | 138 | 1.674         | 1.643   | 1.736   | <b>1.684</b>   | 0.0471 | 2.799  |
| Beryllium    | 9   | 0.0023        | 0.0018  | 0       | <b>0.0013</b>  | 0.0012 | 91.97  |
| Cadmium      | 111 | 0.0085        | 0.0138  | 0.0114  | <b>0.0112</b>  | 0.0027 | 23.71  |
| Cadmium      | 114 | 0.0212        | 0.0181  | 0.0183  | <b>0.0192</b>  | 0.0017 | 8.967  |
| Chromium     | 52  | 0.1986        | 0.1878  | 0.2114  | <b>0.1993</b>  | 0.0118 | 5.94   |
| Chromium     | 53  | 0.8232        | 0.8302  | 0.8073  | <b>0.8202</b>  | 0.0118 | 1.433  |
| Cobalt       | 59  | 17.53         | 17.19   | 17.41   | <b>17.38</b>   | 0.1731 | 0.996  |
| Copper       | 63  | 13.23         | 13.15   | 13.61   | <b>13.33</b>   | 0.2438 | 1.829  |
| Copper       | 65  | 11.24         | 11.37   | 11.32   | <b>11.31</b>   | 0.0654 | 0.5783 |
| Lead         | 206 | 0.0237        | 0.0236  | 0.0208  | <b>0.0227</b>  | 0.0016 | 7.242  |
| Lead         | 207 | 0.0228        | 0.0231  | 0.021   | <b>0.0223</b>  | 0.0012 | 5.246  |
| Lead         | 208 | 0.0229        | 0.0264  | 0.0227  | <b>0.024</b>   | 0.0021 | 8.633  |
| Manganese    | 55  | 7.031         | 6.99    | 7.029   | <b>7.017</b>   | 0.0232 | 0.3308 |
| Molybdenum   | 95  | 2.572         | 2.569   | 2.654   | <b>2.598</b>   | 0.0486 | 1.873  |
| Molybdenum   | 97  | 2.405         | 2.494   | 2.362   | <b>2.42</b>    | 0.0672 | 2.778  |
| Molybdenum   | 98  | 2.444         | 2.369   | 2.259   | <b>2.357</b>   | 0.0929 | 3.942  |
| Nickel       | 60  | 16.09         | 16.14   | 15.86   | <b>16.03</b>   | 0.1509 | 0.9413 |
| Nickel       | 62  | 17.66         | 17.65   | 18.33   | <b>17.88</b>   | 0.392  | 2.192  |
| Selenium     | 77  | 0.366         | 0.6049  | 0.4102  | <b>0.4604</b>  | 0.1271 | 27.62  |
| Selenium     | 78  | 1.341         | 1.691   | 1.637   | <b>1.556</b>   | 0.1886 | 12.12  |
| Selenium     | 82  | 0.9242        | 0.81    | 1.051   | <b>0.9284</b>  | 0.1205 | 12.98  |
| Silver       | 107 | -0.0055       | -0.0038 | -0.0073 | <b>-0.0055</b> | 0.0017 | 31.4   |
| Silver       | 109 | -0.0073       | -0.0067 | -0.0094 | <b>-0.0078</b> | 0.0014 | 18.2   |
| Thallium     | 203 | 0.0017        | 0.0039  | 0.002   | <b>0.0025</b>  | 0.0012 | 48.54  |
| Thallium     | 205 | 0.0037        | 0.0031  | 0.0046  | <b>0.0038</b>  | 0.0007 | 18.94  |
| Tin          | 118 | 0.3966        | 0.3644  | 0.3902  | <b>0.3837</b>  | 0.017  | 4.437  |
| Tin          | 120 | 0.3692        | 0.3894  | 0.3963  | <b>0.385</b>   | 0.0141 | 3.649  |
| Uranium      | 238 | 0.0142        | 0.0098  | 0.0102  | <b>0.0114</b>  | 0.0024 | 21.29  |
| Vanadium     | 51  | 1.885         | 1.802   | 1.769   | <b>1.819</b>   | 0.0596 | 3.278  |
| Zinc         | 66  | 7.399         | 7.813   | 7.551   | <b>7.587</b>   | 0.2094 | 2.76   |
| Zinc         | 67  | 6.533         | 6.523   | 6.876   | <b>6.644</b>   | 0.2011 | 3.027  |
| Zinc         | 68  | 7.459         | 7.534   | 7.354   | <b>7.449</b>   | 0.0906 | 1.216  |

*8 standards  
 In terms of  
 standard  
 out of  
 control*

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.438 | 1.611 | 1.619 | <b>1.438</b> | n/a | n/a |
| Scandium | 45  | 1.378 | 1.51  | 1.472 | <b>1.378</b> | n/a | n/a |
| Gallium  | 71  | 1.555 | 1.779 | 1.792 | <b>1.555</b> | n/a | n/a |
| Rhodium  | 103 | 1.584 | 1.777 | 1.763 | <b>1.584</b> | n/a | n/a |
| Indium   | 115 | 1.423 | 1.591 | 1.604 | <b>1.423</b> | n/a | n/a |
| Lutetium | 175 | 1.256 | 1.386 | 1.43  | <b>1.256</b> | n/a | n/a |



Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCV3          | Mean  | SD    | %RSD  |              |        |        |
|--------------|---------------|-------|-------|-------|--------------|--------|--------|
| TimeStamp    | 5/12/10 16:02 |       |       |       |              |        |        |
| Aluminum     | 27            | 25.18 | 25.34 | 25.42 | <b>25.31</b> | 0.1206 | 0.4764 |
| Antimony     | 121           | 25.07 | 24.97 | 25.02 | <b>25.02</b> | 0.0521 | 0.2084 |
| Antimony     | 123           | 25.14 | 25.47 | 24.34 | <b>24.98</b> | 0.5817 | 2.328  |
| Arsenic      | 75            | 25.43 | 25.48 | 26.6  | <b>25.84</b> | 0.6625 | 2.564  |
| Barium       | 135           | 25.78 | 25.75 | 26.17 | <b>25.9</b>  | 0.2363 | 0.9123 |
| Barium       | 137           | 25.19 | 25.14 | 24.79 | <b>25.04</b> | 0.2197 | 0.8776 |
| Barium       | 138           | 24.54 | 25.35 | 25.63 | <b>25.18</b> | 0.5648 | 2.243  |
| Beryllium    | 9             | 26.23 | 25.41 | 25.16 | <b>25.6</b>  | 0.5641 | 2.204  |
| Cadmium      | 111           | 26.55 | 26.33 | 25.83 | <b>26.24</b> | 0.3692 | 1.407  |
| Cadmium      | 114           | 25.76 | 26.36 | 25.19 | <b>25.77</b> | 0.5816 | 2.257  |
| Chromium     | 52            | 25.04 | 25.8  | 26.23 | <b>25.69</b> | 0.5992 | 2.332  |
| Chromium     | 53            | 25.48 | 25.34 | 25.74 | <b>25.52</b> | 0.2057 | 0.806  |
| Cobalt       | 59            | 25.03 | 26.05 | 25.09 | <b>25.39</b> | 0.5762 | 2.269  |
| Copper       | 63            | 25.74 | 26.06 | 26.76 | <b>26.19</b> | 0.5203 | 1.987  |
| Copper       | 65            | 25.24 | 26.64 | 26.57 | <b>26.15</b> | 0.7864 | 3.007  |
| Lead         | 206           | 24.62 | 23.58 | 24.99 | <b>24.4</b>  | 0.7316 | 2.999  |
| Lead         | 207           | 24.58 | 24.29 | 24.77 | <b>24.55</b> | 0.2453 | 0.9995 |
| Lead         | 208           | 24.43 | 23.98 | 24.76 | <b>24.39</b> | 0.39   | 1.599  |
| Manganese    | 55            | 25.29 | 25.42 | 25.62 | <b>25.44</b> | 0.1656 | 0.6509 |
| Molybdenum   | 95            | 25.23 | 25.86 | 25.67 | <b>25.59</b> | 0.3246 | 1.269  |
| Molybdenum   | 97            | 25.28 | 24.84 | 25    | <b>25.04</b> | 0.2202 | 0.8793 |
| Molybdenum   | 98            | 24.88 | 24.38 | 25.78 | <b>25.01</b> | 0.7109 | 2.842  |
| Nickel       | 60            | 25.18 | 25.5  | 26.01 | <b>25.56</b> | 0.4157 | 1.626  |
| Nickel       | 62            | 26.93 | 27.52 | 27.04 | <b>27.16</b> | 0.3155 | 1.161  |
| Selenium     | 77            | 25.77 | 25.93 | 26.81 | <b>26.17</b> | 0.5626 | 2.15   |
| Selenium     | 78            | 26.42 | 26.97 | 27.22 | <b>26.87</b> | 0.409  | 1.522  |
| Selenium     | 82            | 25.95 | 25.51 | 26.16 | <b>25.87</b> | 0.3312 | 1.28   |
| Silver       | 107           | 25.7  | 25.93 | 25.73 | <b>25.78</b> | 0.1287 | 0.499  |
| Silver       | 109           | 25.39 | 25.5  | 25.17 | <b>25.35</b> | 0.1688 | 0.6658 |
| Thallium     | 203           | 24.28 | 24.57 | 24.7  | <b>24.51</b> | 0.214  | 0.873  |
| Thallium     | 205           | 24.51 | 24.62 | 25.01 | <b>24.71</b> | 0.2635 | 1.066  |
| Tin          | 118           | 25.39 | 24.93 | 24.97 | <b>25.1</b>  | 0.2506 | 0.9984 |
| Tin          | 120           | 25.47 | 25.7  | 25.29 | <b>25.49</b> | 0.2083 | 0.8171 |
| Uranium      | 238           | 24.33 | 24.31 | 24.79 | <b>24.47</b> | 0.2729 | 1.115  |
| Vanadium     | 51            | 26.31 | 26.83 | 26.36 | <b>26.5</b>  | 0.2906 | 1.097  |
| Zinc         | 66            | 25.43 | 25.72 | 26.46 | <b>25.87</b> | 0.5291 | 2.045  |
| Zinc         | 67            | 25.19 | 25.27 | 25.78 | <b>25.42</b> | 0.3222 | 1.268  |
| Zinc         | 68            | 24.85 | 26.09 | 26.34 | <b>25.76</b> | 0.8026 | 3.115  |

**Internal Standard Factors:**

|          |     |       |       |       |              |     |     |
|----------|-----|-------|-------|-------|--------------|-----|-----|
| Lithium  | 6   | 1.021 | 1.091 | 1.111 | <b>1.021</b> | n/a | n/a |
| Scandium | 45  | 1.105 | 1.234 | 1.284 | <b>1.105</b> | n/a | n/a |
| Gallium  | 71  | 1.035 | 1.179 | 1.247 | <b>1.035</b> | n/a | n/a |
| Rhodium  | 103 | 1.044 | 1.11  | 1.179 | <b>1.044</b> | n/a | n/a |
| Indium   | 115 | 1.031 | 1.116 | 1.142 | <b>1.031</b> | n/a | n/a |
| Lutetium | 175 | 1.013 | 1.097 | 1.176 | <b>1.013</b> | n/a | n/a |

Instrument ID: K-ICP-MS-02  
 Experiment: 05-12-10B  
 Units: µg/L (ppb)

Method: EPA 200.8  
 Analyst: Greg Jasper  
 STARLIMS #200241

| Sample Name: | CCB3          |         |         |         | Mean           | SD     | %RSD  |
|--------------|---------------|---------|---------|---------|----------------|--------|-------|
| TimeStamp    | 5/12/10 16:17 |         |         |         |                |        |       |
| Aluminum     | 27            | -0.1692 | -0.1647 | -0.1649 | <b>-0.1663</b> | 0.0025 | 1.514 |
| Antimony     | 121           | -0.0245 | -0.0263 | -0.0253 | <b>-0.0254</b> | 0.0009 | 3.433 |
| Antimony     | 123           | -0.0213 | -0.0246 | -0.0273 | <b>-0.0244</b> | 0.003  | 12.29 |
| Arsenic      | 75            | 0.0637  | 0.0162  | 0.0606  | <b>0.0468</b>  | 0.0266 | 56.7  |
| Barium       | 135           | 0.0084  | 0.0136  | 0.0159  | <b>0.0127</b>  | 0.0038 | 30.38 |
| Barium       | 137           | 0.0273  | 0.0125  | 0.0113  | <b>0.017</b>   | 0.0089 | 52.27 |
| Barium       | 138           | 0.0165  | 0.0172  | 0.0114  | <b>0.015</b>   | 0.0032 | 21.25 |
| Beryllium    | 9             | 0.0085  | 0.0099  | 0.005   | <b>0.0078</b>  | 0.0025 | 32.34 |
| Cadmium      | 111           | 0.0084  | 0.01    | 0.0055  | <b>0.008</b>   | 0.0023 | 28.36 |
| Cadmium      | 114           | 0.0102  | 0.011   | 0.0085  | <b>0.0099</b>  | 0.0013 | 13.17 |
| Chromium     | 52            | -0.0288 | -0.0116 | -0.0249 | <b>-0.0217</b> | 0.009  | 41.6  |
| Chromium     | 53            | 0.0274  | -0.0054 | -0.0751 | <b>-0.0177</b> | 0.0523 | 295.5 |
| Cobalt       | 59            | -0.0005 | 0.0069  | -0.0014 | <b>0.0017</b>  | 0.0045 | 273.7 |
| Copper       | 63            | 0.0447  | 0.06    | 0.0544  | <b>0.053</b>   | 0.0077 | 14.61 |
| Copper       | 65            | 0.0137  | 0.0178  | 0.0271  | <b>0.0195</b>  | 0.0069 | 35.16 |
| Lead         | 206           | 0.0118  | 0.0074  | 0.0042  | <b>0.0078</b>  | 0.0038 | 48.81 |
| Lead         | 207           | 0.0114  | 0.0069  | 0.0049  | <b>0.0077</b>  | 0.0033 | 42.8  |
| Lead         | 208           | 0.0115  | 0.0071  | 0.0047  | <b>0.0077</b>  | 0.0034 | 44.25 |
| Manganese    | 55            | 0.1278  | 0.1279  | 0.1177  | <b>0.1245</b>  | 0.0059 | 4.7   |
| Molybdenum   | 95            | 0.0445  | 0.0474  | 0.0382  | <b>0.0434</b>  | 0.0047 | 10.8  |
| Molybdenum   | 97            | 0.0489  | 0.0413  | 0.0308  | <b>0.0403</b>  | 0.0091 | 22.58 |
| Molybdenum   | 98            | 0.0407  | 0.0514  | 0.0355  | <b>0.0425</b>  | 0.0081 | 18.98 |
| Nickel       | 60            | 0.0019  | 0.0022  | 0.0079  | <b>0.004</b>   | 0.0034 | 84.43 |
| Nickel       | 62            | 0.3677  | 0.4979  | 0.4271  | <b>0.4309</b>  | 0.0652 | 15.13 |
| Selenium     | 77            | -0.1363 | -0.0865 | -0.1019 | <b>-0.1082</b> | 0.0255 | 23.56 |
| Selenium     | 78            | 0.0134  | 0.3016  | 0.0639  | <b>0.1263</b>  | 0.1539 | 121.8 |
| Selenium     | 82            | 0.1162  | -0.0323 | 0.1487  | <b>0.0775</b>  | 0.0965 | 124.4 |
| Silver       | 107           | 0.0107  | 0.0114  | 0.0032  | <b>0.0085</b>  | 0.0045 | 53.56 |
| Silver       | 109           | 0.0077  | 0.0056  | 0.0016  | <b>0.005</b>   | 0.0031 | 62.04 |
| Thallium     | 203           | 0.0142  | 0.005   | 0.0022  | <b>0.0071</b>  | 0.0063 | 87.57 |
| Thallium     | 205           | 0.0124  | 0.0113  | 0.0056  | <b>0.0097</b>  | 0.0037 | 37.47 |
| Tin          | 118           | 0.02    | 0.0149  | 0.0128  | <b>0.0159</b>  | 0.0037 | 23.29 |
| Tin          | 120           | 0.0192  | 0.0248  | 0.0131  | <b>0.0191</b>  | 0.0058 | 30.67 |
| Uranium      | 238           | 0.0087  | 0.0081  | 0.0054  | <b>0.0074</b>  | 0.0017 | 23.3  |
| Vanadium     | 51            | -0.0217 | 0.001   | 0.0082  | <b>-0.0042</b> | 0.0156 | 374.1 |
| Zinc         | 66            | -0.0519 | -0.0303 | -0.0527 | <b>-0.045</b>  | 0.0127 | 28.22 |
| Zinc         | 67            | -0.1058 | -0.056  | -0.1093 | <b>-0.0904</b> | 0.0298 | 32.98 |
| Zinc         | 68            | -0.0456 | -0.0288 | -0.0432 | <b>-0.0392</b> | 0.0091 | 23.08 |

**Internal Standard Factors:**

|          |     |       |       |       |                  |     |
|----------|-----|-------|-------|-------|------------------|-----|
| Lithium  | 6   | 0.949 | 1.061 | 1.109 | <b>0.949</b> n/a | n/a |
| Scandium | 45  | 1.019 | 1.17  | 1.182 | <b>1.019</b> n/a | n/a |
| Gallium  | 71  | 0.952 | 1.171 | 1.195 | <b>0.952</b> n/a | n/a |
| Rhodium  | 103 | 0.967 | 1.115 | 1.183 | <b>0.967</b> n/a | n/a |
| Indium   | 115 | 0.987 | 1.088 | 1.133 | <b>0.987</b> n/a | n/a |
| Lutetium | 175 | 0.979 | 1.055 | 1.131 | <b>0.979</b> n/a | n/a |

July 1, 2010

Analytical Report for Service Request No: K1004575

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglar Kronquist/0907194.000.0601**

Dear Melissa:

Enclosed are the additional pages for the samples submitted to our laboratory on May 07, 2010. For your reference, these analyses have been assigned our service request number K1004575.

Results for "Phosphate as Orthophosphate" enclosed.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [PDivvela@caslab.com](mailto:PDivvela@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Pradeep Divvela  
Project Chemist

PD/lb

Page 1 of 3

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent  
Project: Heglar Kronquist  
Sample Matrix: Water

Service Request No.: K1004575  
Date Received: 05/07/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four water samples were received for analysis at Columbia Analytical Services on 05/07/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Field filtered containers were used for the analysis of Chloride, Nitrate, Nitrite, Fluoride, Sulfate and O. Phos

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

No anomalies associated with the analysis of these samples were observed.

Approved by  Date 06/30/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Phosphate as Orthophosphate

Analysis Method : 365.3  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 0.031 | 0.013 | 1               | 05/07/10      | 0.147  |              |
| BH-10        | K1004575-002 | 0.031 | 0.013 | 1               | 05/07/10      | 0.083  |              |
| BH-14        | K1004575-003 | 0.031 | 0.013 | 1               | 05/07/10      | 0.064  |              |
| EB-050610    | K1004575-004 | 0.031 | 0.013 | 1               | 05/07/10      | ND     |              |
| Method Blank | K1004575-MB  | 0.031 | 0.013 | 1               | 05/07/10      | ND     |              |



June 7, 2010

Analytical Report for Service Request No: K1004575

Melissa Kleven  
Exponent  
15375 Southeast 30th Place, Suite 250  
Bellevue, WA 98007

**RE: Heglar Kronquist/0907194.000.0601**

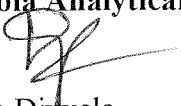
Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on May 07, 2010. For your reference, these analyses have been assigned our service request number K1004575.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at [PDivvela@caslab.com](mailto:PDivvela@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**  
Pradeep Divvela  
Project Chemist

PD/bk

Page 1 of 584

## Acronyms

|            |  |
|------------|--|
| ASTM       | American Society for Testing and Materials   |
| A2LA       | American Association for Laboratory Accreditation  |
| CARB       | California Air Resources Board   |
| CAS Number | Chemical Abstract Service registry Number  |
| CFC        | Chlorofluorocarbon   |
| CFU        | Colony-Forming Unit  |
| DEC        | Department of Environmental Conservation   |
| DEQ        | Department of Environmental Quality  |
| DHS        | Department of Health Services  |
| DOE        | Department of Ecology  |
| DOH        | Department of Health   |
| EPA        | U. S. Environmental Protection Agency  |
| ELAP       | Environmental Laboratory Accreditation Program   |
| GC         | Gas Chromatography   |
| GC/MS      | Gas Chromatography/Mass Spectrometry   |
| LUFT       | Leaking Underground Fuel Tank  |
| M          | Modified   |
| MCL        | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL        | Method Detection Limit   |
| MPN        | Most Probable Number   |
| MRL        | Method Reporting Limit   |
| NA         | Not Applicable   |
| NC         | Not Calculated   |
| NCASI      | National Council of the Paper Industry for Air and Stream Improvement  |
| ND         | Not Detected   |
| NIOSH      | National Institute for Occupational Safety and Health  |
| PQL        | Practical Quantitation Limit   |
| RCRA       | Resource Conservation and Recovery Act   |
| SIM        | Selected Ion Monitoring  |
| TPH        | Total Petroleum Hydrocarbons   |
| tr         | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.                           |

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc.**  
**Kelso, WA**  
**State Certifications, Accreditations, and Licenses**

| <b>Program</b>         | <b>Number</b> |
|------------------------|---------------|
| Alaska DEC UST         | UST-040       |
| Arizona DHS            | AZ0339        |
| Arkansas - DEQ         | 88-0637       |
| California DHS         | 2286          |
| Colorado DPHE          | -             |
| Florida DOH            | E87412        |
| Hawaii DOH             | -             |
| Idaho DHW              | -             |
| Indiana DOH            | C-WA-01       |
| Louisiana DEQ          | 3016          |
| Louisiana DHH          | LA050010      |
| Maine DHS              | WA0035        |
| Michigan DEQ           | 9949          |
| Minnesota DOH          | 053-999-368   |
| Montana DPHHS          | CERT0047      |
| Nevada DEP             | WA35          |
| New Jersey DEP         | WA005         |
| New Mexico ED          | -             |
| North Carolina DWQ     | 605           |
| Oklahoma DEQ           | 9801          |
| Oregon - DHS           | WA200001      |
| South Carolina DHEC    | 61002         |
| Utah DOH               | COLU          |
| Washington DOE         | C1203         |
| Wisconsin DNR          | 998386840     |
| Wyoming (EPA Region 8) | -             |



## **Case Narrative**



COLUMBIA ANALYTICAL SERVICES, INC.

**Client:** Exponent  
**Project:** Heglar Kronquist  
**Sample Matrix:** Water

**Service Request No.:** K1004575  
**Date Received:** 05/07/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 05/07/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Field filtered containers were used for the analysis of Chloride, Nitrate, Nitrite, Fluoride, Sulfate and O. Phos

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

No anomalies associated with the analysis of these samples were observed.

Approved by DP Date 6/9/10

## **Chain of Custody**

**CHAIN OF CUSTODY**

SR#: K1004575 OF PAGE

PROJECT NAME Heglar Krangquist  
 PROJECT NUMBER 0907194.000.0601  
 PROJECT MANAGER Melissa Kleven  
 COMPANY/ADDRESS 15375 SE 30th PI  
 CITY/STATE/ZIP Bellevue, WA 98007  
 E-MAIL ADDRESS mklevene@exponent.com  
 PHONE # 425-519-8774 FAX 425-519-8799  
 SAMPLER'S SIGNATURE [Signature] / Keri Whetter

| SAMPLE I.D. | DATE   | TIME | LAB I.D. | MATRIX | NUMBER OF CONTAINERS | REMARKS |
|-------------|--------|------|----------|--------|----------------------|---------|
| BH-12       | 5/4/10 | 0900 | L        | S      |                      |         |
| BH-10       |        | 1405 |          | S      |                      |         |
| BH-14       |        | 1515 |          | S      |                      |         |
| EB-050610   |        | 1620 |          | S      |                      |         |

**REPORT REQUIREMENTS**

I. Routine Report: Method Blank, Surrogate, as required

II. Report Dup., MS, MSD as required

III. Data Validation Report (includes all raw data)

IV. CLP Deliverable Report

V. EDD

---

**INVOICE INFORMATION**

P.O. #             
 Bill To: Same  
as above

---

**TURNAROUND REQUIREMENTS**

24 hr.  48 hr.  
 5 Day  
 Standard (10-15 working days)  
 Provide FAX Results  
 Requested Report Date           

**REMOVED BY:** [Signature] Date/Time 5-6-16/1819  
 Signature Keri Whetter Firm Exponent  
 Printed Name Keri Whetter

**RELINQUISHED BY:** [Signature] Date/Time 5/7/10 0950  
 Signature Jos Kennedy Firm CAS  
 Printed Name Jos Kennedy

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg  
 Dissolved Metals: (Al) (As) (Sb) (Ba) (Be) (B) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Mo) (Ni) (K) (Ag) (Na) (Se) (Sr) (Ti) (Sn) (V) (Zn) (Hg)

\*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:  
-run PH ASAP  
-run phosphate as orthophosphate ASAP, within 48 hr hold time  
-500 mL w/ H2SO4 is field-filtered  
-1L unpreserved are field-filtered  
-500 mL w/ HNO3 are field-filtered

Sample Shipment contains USDA regulated soil samples (check box if applicable)

BAR CODE #T022894

**Columbia Analytical Services, Inc.  
Cooler Receipt and Preservation Form**

PC PL

Client / Project: Exponent Service Request K10 04575

Received: 5/7/10 Opened: 5/7/10 By: LM

1. Samples were received via? *Mail*  **Fed Ex** *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle)  **Cooler** *Box* *Envelope* *Other* NA
3. Were custody seals on coolers? *NA*  **Y** *N* If yes, how many and where? 1 front
- If present, were custody seals intact?  **Y** *N* If present, were they signed and dated?  **Y** *N*

| Cooler Temp °C | Temp Blank °C | Thermometer ID | Cooler/COC ID | Tracking Number | NA | Filed |
|----------------|---------------|----------------|---------------|-----------------|----|-------|
| -0.1           | 4.0           | 265            | NA            | 8684 6000 9745  |    |       |
|                |               |                |               |                 |    |       |
|                |               |                |               |                 |    |       |
|                |               |                |               |                 |    |       |

7. Packing material used. *Inserts*  **Baggies**  **Bubble Wrap**  **Gel Packs**  **Wet Ice** *Sleeves* *Other* \_\_\_\_\_
8. Were custody papers properly filled out (ink, signed, etc.)? LM 5/7/10 *NA*  **Y** *N*
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA*  **Y** *N*
10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA*  **Y** *N*
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA*  **Y** *N*
12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA*  **Y** *N*
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA*  **Y** *N*
14. Were VOA vials received without headspace? *Indicate in the table below.*  **NA** *Y* *N*
15. Was C12/Res negative?  **NA** *Y* *N*

| Sample ID on Bottle | Sample ID on COC | Identified by: |
|---------------------|------------------|----------------|
|                     |                  |                |
|                     |                  |                |
|                     |                  |                |

| Sample ID | Bottle Count | Bottle Type | Out of Temp | Head-space | Broke | pH | Reagent | Volume added | Reagent Lot Number | Initials | Time |
|-----------|--------------|-------------|-------------|------------|-------|----|---------|--------------|--------------------|----------|------|
|           |              |             |             |            |       |    |         |              |                    |          |      |
|           |              |             |             |            |       |    |         |              |                    |          |      |
|           |              |             |             |            |       |    |         |              |                    |          |      |
|           |              |             |             |            |       |    |         |              |                    |          |      |

**SHORT HOLD TIME**

Notes, Discrepancies, & Resolutions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **General Chemistry Parameters**



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Chloride

Analysis Method : 300.0  
Test Notes :

Units : mg/L

Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL  | Dilution<br>Factor | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|--------------|------|------|--------------------|------------------|--------|-----------------|
| BH-12        | K1004575-001 | 0.20 | 0.06 | 2                  | 05/20/10         | 15.8   |                 |
| BH-10        | K1004575-002 | 10   | 2    | 50                 | 05/24/10         | 385    |                 |
| BH-14        | K1004575-003 | 10   | 2    | 50                 | 05/24/10         | 388    |                 |
| EB-050610    | K1004575-004 | 0.20 | 0.06 | 2                  | 05/24/10         | 0.14   | J               |
| Method Blank | K1004575-MB  | 0.20 | 0.03 | 1                  | 05/24/10         | ND     |                 |
| Method Blank | K1004575-MB  | 0.20 | 0.03 | 1                  | 05/20/10         | ND     |                 |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004923-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Analysis Method | MRL  | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|----------|-----------------|------|---------------|-------------------------|---------|-----------------------------|--------------|
| Chloride | 300.0           | 0.20 | 9.83          | 9.76                    | 9.80    | <1                          |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/20/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L  
 Lab Code : K1004923-002MS K1004923-002DMS Basis : NA  
 Test Notes :

| Analyte  | Prep Method | Analysis Method | MRL  | Spike Level |      | Sample Result | Spike Result |      | Spike Recovery |     | CAS Acceptance Limits | Relative Percent Difference | Result Notes |
|----------|-------------|-----------------|------|-------------|------|---------------|--------------|------|----------------|-----|-----------------------|-----------------------------|--------------|
|          |             |                 |      | MS          | DMS  |               | MS           | DMS  | MS             | DMS |                       |                             |              |
| Chloride | NONE        | 300.0           | 0.20 | 3.00        | 3.00 | 9.83          | 13.0         | 13.0 | 106            | 106 | 80-120                | <1                          |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Chloride | NONE        | 300.0           | 5.00       | 5.02   | 100              | 80-120                                 |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/24/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Chloride | NONE        | 300.0           | 5.00       | 4.94   | 99               | 90-110                                 |              |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/20/2010     | 5.00       | 5.12           | 102              |
| CCV2 Result | 5/20/2010     | 5.00       | 5.06           | 101              |
| CCV3 Result | 5/20/2010     | 5.00       | 5.02           | 100              |
| CCV4 Result | 5/20/2010     | 5.00       | 4.97           | 99               |
| CCV5 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV6 Result | 5/20/2010     | 5.00       | 4.96           | 99               |
| CCV7 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV8 Result | 5/21/2010     | 5.00       | 4.95           | 99               |
| CCV1 Result | 5/24/2010     | 5.00       | 5.18           | 104              |
| CCV2 Result | 5/24/2010     | 5.00       | 5.09           | 102              |
| CCV3 Result | 5/24/2010     | 5.00       | 5.02           | 100              |
| CCV4 Result | 5/24/2010     | 5.00       | 5.10           | 102              |
| CCV5 Result | 5/24/2010     | 5.00       | 5.08           | 102              |
| CCV6 Result | 5/24/2010     | 5.00       | 5.07           | 101              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Chloride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/20/2010     | 0.20 | ND          |
| CCB2 Result | 5/20/2010     | 0.20 | ND          |
| CCB3 Result | 5/20/2010     | 0.20 | ND          |
| CCB4 Result | 5/20/2010     | 0.20 | ND          |
| CCB5 Result | 5/20/2010     | 0.20 | ND          |
| CCB6 Result | 5/20/2010     | 0.20 | ND          |
| CCB7 Result | 5/20/2010     | 0.20 | ND          |
| CCB8 Result | 5/21/2010     | 0.20 | ND          |
| CCB1 Result | 5/24/2010     | 0.20 | ND          |
| CCB2 Result | 5/24/2010     | 0.20 | ND          |
| CCB3 Result | 5/24/2010     | 0.20 | ND          |
| CCB4 Result | 5/24/2010     | 0.20 | ND          |
| CCB5 Result | 5/24/2010     | 0.20 | ND          |
| CCB6 Result | 5/24/2010     | 0.20 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Fluoride

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|------|-------|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 0.20 | 0.01  | 2               | 05/20/10      | 0.34   |              |
| BH-10        | K1004575-002 | 0.20 | 0.01  | 2               | 05/24/10      | 0.23   |              |
| BH-14        | K1004575-003 | 0.20 | 0.01  | 2               | 05/24/10      | 0.23   |              |
| EB-050610    | K1004575-004 | 0.20 | 0.01  | 2               | 05/24/10      | ND     |              |
| Method Blank | K1004575-MB  | 0.20 | 0.003 | 1               | 05/20/10      | ND     |              |
| Method Blank | K1004575-MB  | 0.20 | 0.003 | 1               | 05/24/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/24/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1005179-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Analysis Method | MRL  | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|----------|-----------------|------|---------------|-------------------------|---------|-----------------------------|--------------|
| Fluoride | 300.0           | 0.20 | ND            | ND                      | ND      | -                           |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/24/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1005179-001MS K1005179-001DMS Basis : NA  
**Test Notes :**

| Analyte  | Prep Method | Analysis Method | MRL  | Spike Level |      | Sample Result | Spike Result |      | Spike Recovery |     | CAS Acceptance Limits | Relative Percent Difference | Result Notes |
|----------|-------------|-----------------|------|-------------|------|---------------|--------------|------|----------------|-----|-----------------------|-----------------------------|--------------|
|          |             |                 |      | MS          | DMS  |               | MS           | DMS  | MS             | DMS |                       |                             |              |
| Fluoride | NONE        | 300.0           | 0.20 | 3.00        | 3.00 | ND            | 2.97         | 3.00 | 99             | 100 | 80-120                | 1                           |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/20/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|          |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Fluoride | NONE        | 300.0           | 13.5       | 13.9   | 103              | 90-110                             |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/24/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte  | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|----------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|          |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Fluoride | NONE        | 300.0           | 13.5       | 13.6   | 101              | 90-110                             |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/20/2010     | 5.00       | 5.02           | 100              |
| CCV2 Result | 5/20/2010     | 5.00       | 4.99           | 100              |
| CCV3 Result | 5/20/2010     | 5.00       | 5.00           | 100              |
| CCV4 Result | 5/20/2010     | 5.00       | 4.93           | 99               |
| CCV5 Result | 5/20/2010     | 5.00       | 4.96           | 99               |
| CCV6 Result | 5/20/2010     | 5.00       | 5.00           | 100              |
| CCV7 Result | 5/20/2010     | 5.00       | 4.92           | 98               |
| CCV8 Result | 5/21/2010     | 5.00       | 4.93           | 99               |
| CCV1 Result | 5/24/2010     | 5.00       | 4.83           | 97               |
| CCV2 Result | 5/24/2010     | 5.00       | 4.76           | 95               |
| CCV3 Result | 5/24/2010     | 5.00       | 4.79           | 96               |
| CCV4 Result | 5/24/2010     | 5.00       | 4.81           | 96               |
| CCV5 Result | 5/24/2010     | 5.00       | 4.78           | 96               |
| CCV6 Result | 5/24/2010     | 5.00       | 4.84           | 97               |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Fluoride  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/20/2010     | 0.20 | ND          |
| CCB2 Result | 5/20/2010     | 0.20 | ND          |
| CCB3 Result | 5/20/2010     | 0.20 | ND          |
| CCB4 Result | 5/20/2010     | 0.20 | ND          |
| CCB5 Result | 5/20/2010     | 0.20 | ND          |
| CCB6 Result | 5/20/2010     | 0.20 | ND          |
| CCB7 Result | 5/20/2010     | 0.20 | ND          |
| CCB8 Result | 5/21/2010     | 0.20 | ND          |
| CCB1 Result | 5/24/2010     | 0.20 | ND          |
| CCB2 Result | 5/24/2010     | 0.20 | ND          |
| CCB3 Result | 5/24/2010     | 0.20 | ND          |
| CCB4 Result | 5/24/2010     | 0.20 | ND          |
| CCB5 Result | 5/24/2010     | 0.20 | ND          |
| CCB6 Result | 5/24/2010     | 0.20 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Sulfate

Analysis Method : 300.0  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL  | MDL  | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|------|------|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 1.0  | 0.1  | 5               | 05/24/10      | 30.8   |              |
| BH-10        | K1004575-002 | 10   | 1    | 50              | 05/24/10      | 46     |              |
| BH-14        | K1004575-003 | 10   | 1    | 50              | 05/24/10      | 47     |              |
| EB-050610    | K1004575-004 | 0.20 | 0.02 | 2               | 05/24/10      | 0.04   | J            |
| Method Blank | K1004575-MB  | 0.20 | 0.01 | 1               | 05/24/10      | ND     |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/24/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1005179-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte | Analysis Method | MRL  | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------|-----------------|------|---------------|-------------------------|---------|-----------------------------|--------------|
| Sulfate | 300.0           | 0.20 | 2.05          | 2.06                    | 2.06    | <1                          |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**  
QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/24/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** Batch QC Units : mg/L  
**Lab Code :** K1005179-001MS K1005179-001DMS Basis : NA  
**Test Notes :**

| Analyte | Prep Method | Analysis Method | MRL  | Spike Level |      | Sample Result | Spike Result |      | Spike Recovery |     | CAS Acceptance Limits | Relative Percent Difference | Result Notes |
|---------|-------------|-----------------|------|-------------|------|---------------|--------------|------|----------------|-----|-----------------------|-----------------------------|--------------|
|         |             |                 |      | MS          | DMS  |               | MS           | DMS  | MS             | DMS |                       |                             |              |
| Sulfate | NONE        | 300.0           | 0.20 | 3.00        | 3.00 | 2.05          | 4.98         | 5.02 | 98             | 99  | 80-120                | <1                          |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/24/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|---------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|         |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Sulfate | NONE        | 300.0           | 5.00       | 4.85   | 97               | 90-110                             |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/24/2010     | 5.00       | 4.96           | 99               |
| CCV2 Result | 5/24/2010     | 5.00       | 4.93           | 99               |
| CCV3 Result | 5/24/2010     | 5.00       | 4.88           | 98               |
| CCV4 Result | 5/24/2010     | 5.00       | 4.91           | 98               |
| CCV5 Result | 5/24/2010     | 5.00       | 4.90           | 98               |
| CCV6 Result | 5/24/2010     | 5.00       | 4.91           | 98               |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Sulfate  
300.0  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL  | Blank Value |
|-------------|---------------|------|-------------|
| CCB1 Result | 5/24/2010     | 0.20 | ND          |
| CCB2 Result | 5/24/2010     | 0.20 | ND          |
| CCB3 Result | 5/24/2010     | 0.20 | ND          |
| CCB4 Result | 5/24/2010     | 0.20 | ND          |
| CCB5 Result | 5/24/2010     | 0.20 | ND          |
| CCB6 Result | 5/24/2010     | 0.20 | 0.01 J      |



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** 05/06/10  
**Date Received :** 05/07/10

Ammonia as Nitrogen, Dissolved

Analysis Method 350.1  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 0.050 | 0.020 | 1               | 05/10/10      | ND     |              |
| BH-10        | K1004575-002 | 0.050 | 0.020 | 1               | 05/10/10      | 0.437  |              |
| BH-14        | K1004575-003 | 0.050 | 0.020 | 1               | 05/10/10      | 0.442  |              |
| EB-050610    | K1004575-004 | 0.050 | 0.020 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004575-MB  | 0.050 | 0.020 | 1               | 05/10/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/10/10

Duplicate Summary  
Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004635-001DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| <b>Analyte</b>                 | <b>Analysis Method</b> | <b>MRL</b> | <b>Sample Result</b> | <b>Duplicate Sample Result</b> | <b>Average</b> | <b>Relative Percent Difference</b> | <b>Result Notes</b> |
|--------------------------------|------------------------|------------|----------------------|--------------------------------|----------------|------------------------------------|---------------------|
| Ammonia as Nitrogen, Dissolved | 350.1                  | 0.050      | ND                   | ND                             | ND             | -                                  |                     |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/10/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004635-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                        | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS                                | Result Notes |
|--------------------------------|-----------------|-------|-------------|---------------|----------------------|------------------|------------------------------------|--------------|
|                                |                 |       |             |               |                      |                  | Percent Recovery Acceptance Limits |              |
| Ammonia as Nitrogen, Dissolved | 350.1           | 0.050 | 2.00        | ND            | 2.07                 | 104              | 90-112                             |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/10/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                        | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|--------------------------------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|                                |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Ammonia as Nitrogen, Dissolved | NONE        | 350.1           | 14.3       | 14.1   | 99               | 90-112                             |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/10/2010     | 2.00       | 1.97           | 99               |
| CCV2 Result | 5/10/2010     | 2.00       | 1.96           | 98               |
| CCV3 Result | 5/10/2010     | 2.00       | 1.97           | 99               |
| CCV4 Result | 5/10/2010     | 2.00       | 1.97           | 99               |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Ammonia as Nitrogen, Dissolved  
350.1  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/10/2010     | 0.050 | ND          |
| CCB2 Result | 5/10/2010     | 0.050 | ND          |
| CCB3 Result | 5/10/2010     | 0.050 | ND          |
| CCB4 Result | 5/10/2010     | 0.050 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Nitrite as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|--------------------|--------|--------------|
| BH-12        | K1004575-001 | 0.050 | 0.005 | 1               | 05/07/10 16:02     | ND     |              |
| BH-10        | K1004575-002 | 0.050 | 0.005 | 1               | 05/07/10 16:02     | 0.069  |              |
| BH-14        | K1004575-003 | 0.050 | 0.005 | 1               | 05/07/10 16:02     | 0.074  |              |
| EB-050610    | K1004575-004 | 0.050 | 0.005 | 1               | 05/07/10 16:02     | ND     |              |
| Method Blank | K1004575-MB  | 0.050 | 0.005 | 1               | 05/07/10 16:02     | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 5/6/2010  
Date Received : 5/7/2010  
Date Prepared : NA  
Date Analyzed : 05/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BH-10  
Lab Code : K1004575-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Nitrite as Nitrogen | 353.2           | 0.050 | 0.069         | 0.070                   | 0.070   | 1                           |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** 5/6/2010  
**Date Received :** 5/7/2010  
**Date Prepared :** NA  
**Date Analyzed :** 05/07/10

Matrix Spike/Duplicate Matrix Spike Summary

**Sample Name :** BH-10 Units : mg/L  
**Lab Code :** K1004575-002MS K1004575-002DMS Basis : NA  
**Test Notes :**

| Analyte             | Prep Method | Analysis Method | MRL   | Spike Level |      | Sample Result | Spike Result |      | Spike Recovery |     | CAS Acceptance Limits | Relative Percent Difference | Result Notes |
|---------------------|-------------|-----------------|-------|-------------|------|---------------|--------------|------|----------------|-----|-----------------------|-----------------------------|--------------|
|                     |             |                 |       | MS          | DMS  |               | MS           | DMS  | MS             | DMS |                       |                             |              |
| Nitrite as Nitrogen | NONE        | 353.2           | 0.050 | 2.00        | 2.00 | 0.069         | 2.100        | 2.07 | 102            | 100 | 90-110                | 1                           |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---------------------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Nitrite as Nitrogen | NONE        | 353.2           | 4.00       | 3.98   | 100              | 90-110                                 |              |



# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/7/2010      | 2.00       | 1.95           | 98               |
| CCV2 Result | 5/7/2010      | 2.00       | 1.96           | 98               |
| CCV3 Result | 5/7/2010      | 2.00       | 1.96           | 98               |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client :** Exponent  
**Project :** Heglar Kronquist

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA

Nitrite as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/7/2010      | 0.050 | ND          |
| CCB2 Result | 5/7/2010      | 0.050 | ND          |
| CCB3 Result | 5/7/2010      | 0.050 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Nitrate as Nitrogen

Analysis Method : 353.2  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 0.050 | 0.009 | 1               | 05/11/10      | ND     |              |
| BH-10        | K1004575-002 | 1.3   | 0.2   | 25              | 05/11/10      | 51.7   |              |
| BH-14        | K1004575-003 | 1.3   | 0.2   | 25              | 05/11/10      | 52.2   |              |
| EB-050610    | K1004575-004 | 0.050 | 0.009 | 1               | 05/11/10      | ND     |              |
| Method Blank | K1004575-MB  | 0.050 | 0.009 | 1               | 05/11/10      | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/11/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004455-001DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Nitrate as Nitrogen | 353.2           | 0.050 | 0.011         | 0.011                   | 0.011   | <1                          | J            |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/11/10

Matrix Spike Summary  
 Inorganic Parameters

**Sample Name :** BatchQC  
**Lab Code :** K1004455-001MS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte             | Analysis Method | MRL   | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS                                | Result Notes |
|---------------------|-----------------|-------|-------------|---------------|----------------------|------------------|------------------------------------|--------------|
|                     |                 |       |             |               |                      |                  | Percent Recovery Acceptance Limits |              |
| Nitrate as Nitrogen | 353.2           | 0.050 | 2.00        | 0.011         | 2.00                 | 99               | 88-110                             |              |



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/11/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte             | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---------------------|-------------|-----------------|------------|--------|------------------|--|--------------|
| Nitrate as Nitrogen | NONE        | 353.2           | 14.8       | 14.4   | 97               | 88-110                                 |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Nitrate as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/11/2010     | 2.00       | 1.93           | 97               |
| CCV2 Result | 5/11/2010     | 2.00       | 1.93           | 97               |
| CCV3 Result | 5/11/2010     | 2.00       | 1.91           | 96               |
| CCV4 Result | 5/11/2010     | 2.00       | 1.92           | 96               |
| CCV5 Result | 5/11/2010     | 2.00       | 1.93           | 97               |
| CCV6 Result | 5/11/2010     | 2.00       | 1.92           | 96               |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Nitrate as Nitrogen  
353.2  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/11/2010     | 0.050 | ND          |
| CCB2 Result | 5/11/2010     | 0.050 | ND          |
| CCB3 Result | 5/11/2010     | 0.050 | ND          |
| CCB4 Result | 5/11/2010     | 0.050 | ND          |
| CCB5 Result | 5/11/2010     | 0.050 | ND          |
| CCB6 Result | 5/11/2010     | 0.050 | ND          |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Orthophosphate as Phosphorus

Analysis Method : 365.3  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL   | MDL   | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|--------------|--------------|-------|-------|-----------------|--------------------|--------|--------------|
| BH-12        | K1004575-001 | 0.010 | 0.004 | 1               | 05/07/10 04:00     | 0.048  |              |
| BH-10        | K1004575-002 | 0.010 | 0.004 | 1               | 05/07/10 04:00     | 0.027  |              |
| BH-14        | K1004575-003 | 0.010 | 0.004 | 1               | 05/07/10 04:00     | 0.021  |              |
| EB-050610    | K1004575-004 | 0.010 | 0.004 | 1               | 05/07/10 04:00     | ND     |              |
| Method Blank | K1004575-MB  | 0.010 | 0.004 | 1               | 05/07/10 04:00     | ND     |              |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 5/6/2010  
Date Received : 5/7/2010  
Date Prepared : NA  
Date Analyzed : 05/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : EB-050610  
Lab Code : K1004575-004DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                      | Analysis Method | MRL   | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|------------------------------|-----------------|-------|---------------|-------------------------|---------|-----------------------------|--------------|
| Orthophosphate as Phosphorus | 365.3           | 0.010 | ND            | ND                      | ND      | -                           |              |



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

Client : Exponent  
 Project Name : Heglar Kronquist  
 Project Number : 0907194.000.0601  
 Sample Matrix : WATER

Service Request : K1004575  
 Date Collected : 5/6/2010  
 Date Received : 5/7/2010  
 Date Prepared : NA  
 Date Analyzed : 05/07/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : EB-050610 Units : mg/L  
 Lab Code : K1004575-004MS K1004575-004DMS Basis : NA  
 Test Notes :

| Analyte                      | Prep Method | Analysis Method | MRL   | Spike Level |       | Sample Result | Spike Result |       | Spike Recovery |     | CAS Acceptance Limits | Relative Percent Difference | Result Notes |
|------------------------------|-------------|-----------------|-------|-------------|-------|---------------|--------------|-------|----------------|-----|-----------------------|-----------------------------|--------------|
|                              |             |                 |       | MS          | DMS   |               | MS           | DMS   | MS             | DMS |                       |                             |              |
| Orthophosphate as Phosphorus | NONE        | 365.3           | 0.010 | 0.200       | 0.400 | ND            | 0.189        | 0.385 | 95             | 96  | 81-119                | 1                           |              |

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                      | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|------------------------------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|                              |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Orthophosphate as Phosphorus | NONE        | 365.3           | 3.57       | 3.48   | 97               | 89-118                             |              |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Orthophosphate as Phosphorus  
365.3  
Units: mg/L

## CONTINUING CALIBRATION VERIFICATION (CCV)

|             | Date Analyzed | True Value | Measured Value | Percent Recovery |
|-------------|---------------|------------|----------------|------------------|
| CCV1 Result | 5/7/2010      | 0.500      | 0.479          | 96               |
| CCV2 Result | 5/7/2010      | 0.500      | 0.476          | 95               |
| CCV3 Result | 5/7/2010      | 0.500      | 0.464          | 93               |

# COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project : Heglar Kronquist

Service Request : K1004575  
Date Collected : NA  
Date Received : NA

Orthophosphate as Phosphorus  
365.3  
Units: mg/L

## CONTINUING CALIBRATION BLANK (CCB)

|             | Date Analyzed | MRL   | Blank Value |
|-------------|---------------|-------|-------------|
| CCB1 Result | 5/7/2010      | 0.010 | ND          |
| CCB2 Result | 5/7/2010      | 0.010 | ND          |
| CCB3 Result | 5/7/2010      | 0.010 | ND          |

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** 05/06/10  
**Date Received :** 05/07/10

Alkalinity as CaCO<sub>3</sub>, Total

**Analysis Method :** SM 2320 B  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| <b>Sample Name</b> | <b>Lab Code</b> | <b>MRL</b> | <b>MDL</b> | <b>Dilution Factor</b> | <b>Date Analyzed</b> | <b>Result</b> | <b>Result Notes</b> |
|--------------------|-----------------|------------|------------|------------------------|----------------------|---------------|---------------------|
| BH-12              | K1004575-001    | 2.0        | 1.0        | 1                      | 05/10/10             | 263           |                     |
| BH-10              | K1004575-002    | 2.0        | 1.0        | 1                      | 05/10/10             | 220           |                     |
| BH-14              | K1004575-003    | 2.0        | 1.0        | 1                      | 05/10/10             | 214           |                     |
| EB-050610          | K1004575-004    | 2.0        | 1.0        | 1                      | 05/10/10             | 5.1           |                     |
| Method Blank       | K1004575-MB     | 2.0        | 1.0        | 1                      | 05/10/10             | ND            |                     |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004481-005DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                                 | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Alkalinity as CaCO <sub>3</sub> , Total | SM 2320 B       | 2.0 | 184           | 182                     | 183     | 1                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/10/10

Laboratory Control Sample Summary  
Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                                 | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---|-------------|-----------------|------------|--------|------------------|--|--------------|
| Alkalinity as CaCO <sub>3</sub> , Total | NONE        | SM 2320 B       | 67.9       | 70.4   | 104              | 94-106                                 |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Bicarbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 2.0 | 1.0 | 1               | 05/10/10      | 263    |              |
| BH-10        | K1004575-002 | 2.0 | 1.0 | 1               | 05/10/10      | 220    |              |
| BH-14        | K1004575-003 | 2.0 | 1.0 | 1               | 05/10/10      | 214    |              |
| EB-050610    | K1004575-004 | 2.0 | 1.0 | 1               | 05/10/10      | 6.3    |              |
| Method Blank | K1004575-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                         | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Bicarbonate Alkalinity as CaCO3 | SM 2320 B       | 2.0 | 216           | 218                     | 217     | <1                          |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Carbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| BH-10        | K1004575-002 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| BH-14        | K1004575-003 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| EB-050610    | K1004575-004 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004575-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : Batch QC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                       | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|-------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Carbonate Alkalinity as CaCO3 | SM 2320 B       | 2.0 | ND            | ND                      | ND      | -                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Hydroxide Alkalinity as CaCO3

Analysis Method : SM 2320 B  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| BH-10        | K1004575-002 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| BH-14        | K1004575-003 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| EB-050610    | K1004575-004 | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |
| Method Blank | K1004575-MB  | 2.0 | 1.0 | 1               | 05/10/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/10/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004338-002DUP  
Test Notes :

Units : mg/L  
Basis : NA

| Analyte                       | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|-------------------------------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| Hydroxide Alkalinity as CaCO3 | SM 2320 B       | 2.0 | ND            | ND                      | ND      | -                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

Solids, Total Dissolved

Analysis Method : SM 2540 C  
Test Notes :

Units : mg/L  
Basis : NA

| Sample Name  | Lab Code     | MRL | MDL | Dilution Factor | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----|-----------------|---------------|--------|--------------|
| BH-12        | K1004575-001 | 5.0 | 5.0 | 1               | 05/13/10      | 378    |              |
| BH-10        | K1004575-002 | 5.0 | 5.0 | 1               | 05/13/10      | 1330   |              |
| BH-14        | K1004575-003 | 5.0 | 5.0 | 1               | 05/13/10      | 1160   |              |
| EB-050610    | K1004575-004 | 5.0 | 5.0 | 1               | 05/13/10      | ND     |              |
| Method Blank | K1004575-MB  | 5.0 | 5.0 | 1               | 05/13/10      | ND     |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** 5/6/2010  
**Date Received :** 5/7/2010  
**Date Prepared :** NA  
**Date Analyzed :** 05/13/10

Duplicate Summary  
 Inorganic Parameters

**Sample Name :** BH-10  
**Lab Code :** K1004575-002DUP  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                 | Analysis Method | MRL | Sample Result | Duplicate     |         | Relative Percent Difference | Result Notes |
|-------------------------|-----------------|-----|---------------|---------------|---------|-----------------------------|--------------|
|                         |                 |     |               | Sample Result | Average |                             |              |
| Solids, Total Dissolved | SM 2540 C       | 5.0 | 1330          | 1210          | 1270    | 9                           |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.



**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client :** Exponent  
**Project Name :** Heglar Kronquist  
**Project Number :** 0907194.000.0601  
**Sample Matrix :** WATER

**Service Request :** K1004575  
**Date Collected :** NA  
**Date Received :** NA  
**Date Prepared :** NA  
**Date Analyzed :** 05/13/10

Laboratory Control Sample Summary  
 Inorganic Parameters

**Sample Name :** Lab Control Sample  
**Lab Code :** K1004575-LCS  
**Test Notes :**

**Units :** mg/L  
**Basis :** NA

| Analyte                 | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS                                | Result Notes |
|-------------------------|-------------|-----------------|------------|--------|------------------|------------------------------------|--------------|
|                         |             |                 |            |        |                  | Percent Recovery Acceptance Limits |              |
| Solids, Total Dissolved | NONE        | SM 2540 C       | 750        | 692    | 92               | 83-117                             |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent  
Project Name : Heglär Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : 05/06/10  
Date Received : 05/07/10

pH

Analysis Method : SM 4500-H+ B  
Test Notes :

Units : pH Units  
Basis : NA

| Sample Name | Lab Code     | MRL | Dilution Factor | Date/Time Analyzed | Result | Result Notes |
|-------------|--------------|-----|-----------------|--------------------|--------|--------------|
| BH-12       | K1004575-001 | -   | 1               | 05/07/10 16:30     | 6.91   |              |
| BH-10       | K1004575-002 | -   | 1               | 05/07/10 16:31     | 7.34   |              |
| BH-14       | K1004575-003 | -   | 1               | 05/07/10 16:32     | 7.33   |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/07/10

Duplicate Summary  
Inorganic Parameters

Sample Name : BatchQC  
Lab Code : K1004575-004DUP  
Test Notes :

Units : pH Units  
Basis : NA

| Analyte | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---------|-----------------|-----|---------------|-------------------------|---------|-----------------------------|--------------|
| pH      | SM 4500-H+ B    | -   | 6.76          | 6.74                    | 6.75    | <1                          |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent  
Project Name : Heglar Kronquist  
Project Number : 0907194.000.0601  
Sample Matrix : WATER

Service Request : K1004575  
Date Collected : NA  
Date Received : NA  
Date Prepared : NA  
Date Analyzed : 05/07/10

Laboratory Control Sample Summary  
Inorganic Parameters

Sample Name : Lab Control Sample  
Lab Code : K1004575-LCS  
Test Notes :

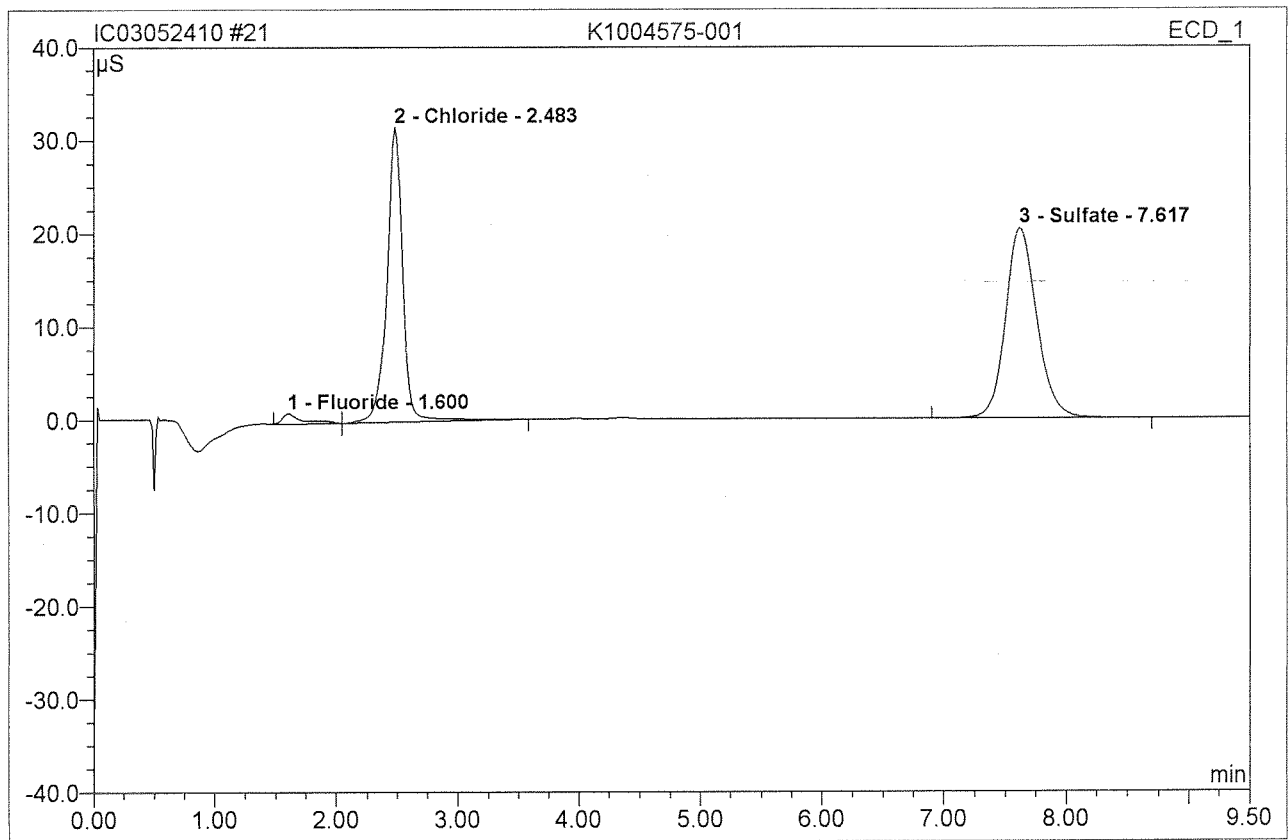
Units : pH Units  
Basis : NA

| Analyte | Prep Method | Analysis Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits | Result Notes |
|---------|-------------|-----------------|------------|--------|------------------|--|--------------|
| pH      | NONE        | SM 4500-H+ B    | 6.46       | 6.38   | 99               | 85-115                                 |              |

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

# 21 K1004575-001

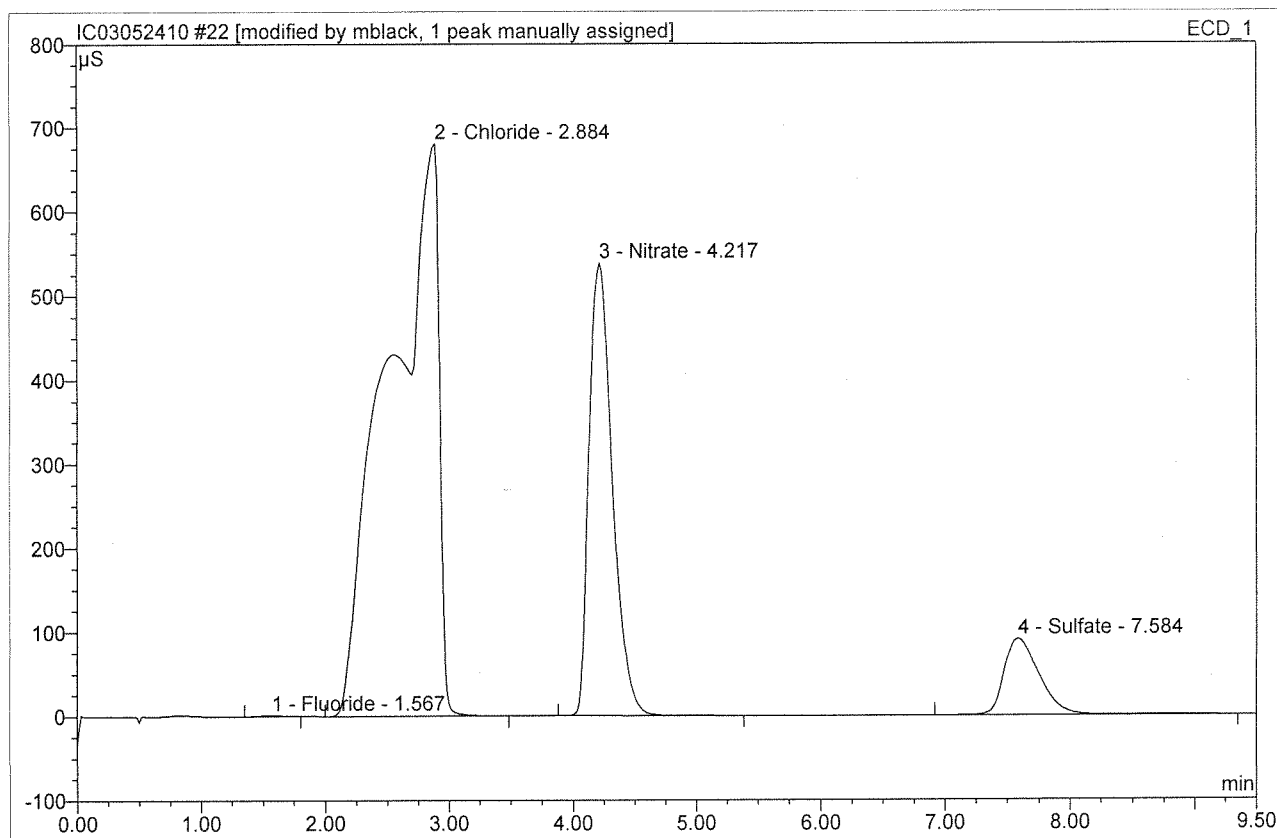
|  |                                |
|--|--------------------------------|
| Sample Name: <b>K1004575-001</b>       | Injection Volume: <b>200.0</b> |
| Vial Number: <b>20</b>                 | Channel: <b>ECD_1</b>          |
| Sample Type: <b>unknown</b>            | Wavelength: <b>n.a.</b>        |
| Control Program: <b>epa300</b>         | Bandwidth: <b>n.a.</b>         |
| Quantif. Method: <b>epa300</b>         | Dilution Factor: <b>5.0000</b> |
| Recording Time: <b>5/24/2010 12:15</b> | Sample Weight: <b>1.0000</b>   |
| Run Time (min): <b>9.50</b>            | Sample Amount: <b>1.0000</b>   |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.60             | Fluoride  | 1.046        | 0.210          | 1.89           | 0.548  | BMB  |
| 2             | 2.48             | Chloride  | 31.659       | 4.809          | 43.37          | 15.419 | bMB  |
| 3             | 7.62             | Sulfate   | 20.478       | 6.069          | 54.74          | 30.838 | BMB  |
| <b>Total:</b> |                  |           | 53.184       | 11.088         | 100.00         | 46.805 |      |



|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>22 K1004575-002</b> |                 |                   |        |
| Sample Name:           | K1004575-002    | Injection Volume: | 200.0  |
| Vial Number:           | 21              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 12:27 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount  | Type  |
|---------------|--------------|-----------|-----------|-------------|------------|---------|-------|
| 1             | 1.57         | Fluoride  | 0.955     | 0.220       | 0.05       | 0.230   | BMB*  |
| 2             | 2.88         | Chloride  | 680.807   | 317.143     | 68.34      | 406.713 | BMB*^ |
| 3             | 4.22         | Nitrate   | 538.616   | 117.565     | 25.33      | 63.826  | BMB   |
| 4             | 7.58         | Sulfate   | 90.660    | 29.126      | 6.28       | 59.195  | BMB   |
| <b>Total:</b> |              |           | 1311.038  | 464.054     | 100.00     | 529.964 |       |

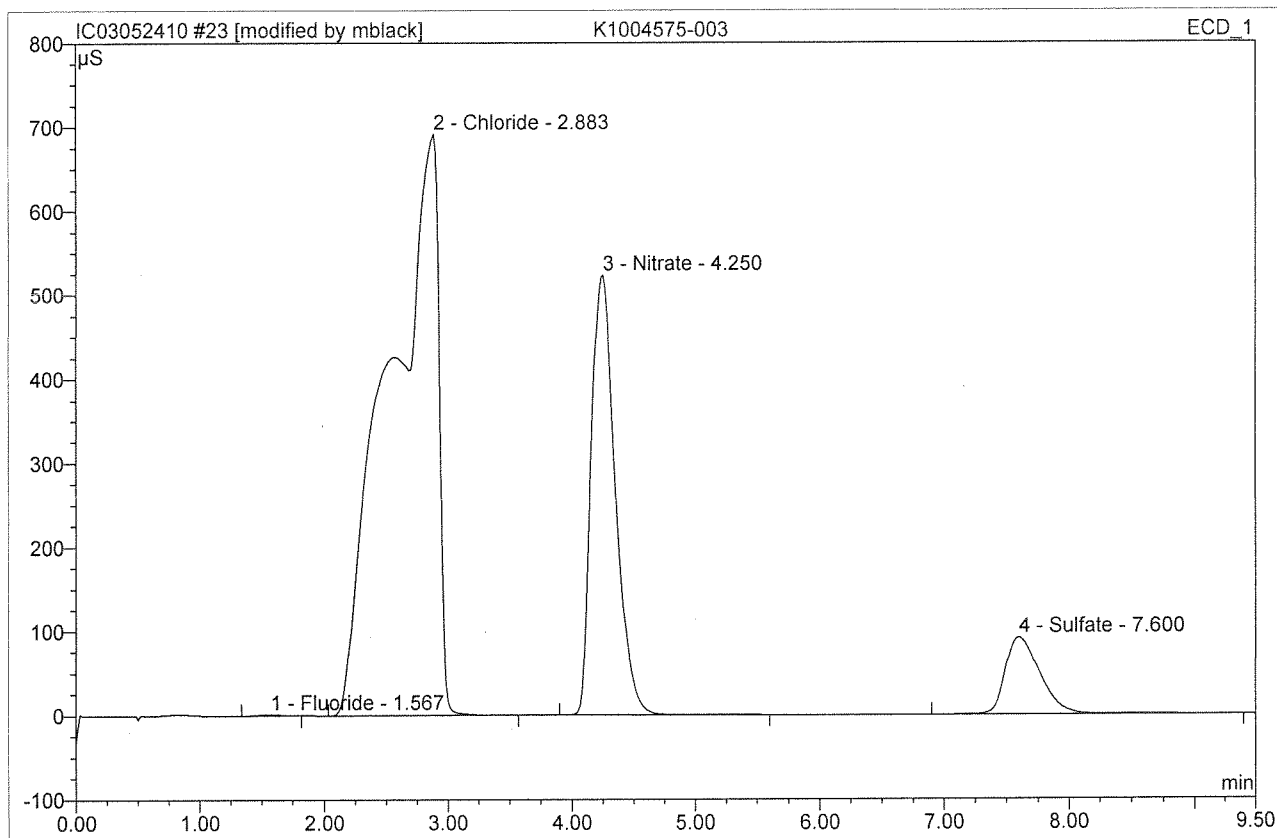
After Initials

*MB*

MAY 24 2010

*MB 5/25/10*

|                        |                        |                   |               |
|------------------------|------------------------|-------------------|---------------|
| <b>23 K1004575-003</b> |                        |                   |               |
| Sample Name:           | <b>K1004575-003</b>    | Injection Volume: | <b>200.0</b>  |
| Vial Number:           | <b>22</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:           | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program:       | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method:       | <b>epa300</b>          | Dilution Factor:  | <b>2.0000</b> |
| Recording Time:        | <b>5/24/2010 12:39</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):        | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|------|
| 1             | 1.57            | Fluoride  | 0.982        | 0.225          | 0.05          | 0.235   | BMB* |
| 2             | 2.88            | Chloride  | 691.967      | 318.790        | 68.39         | 408.825 | BMB* |
| 3             | 4.25            | Nitrate   | 523.195      | 118.060        | 25.33         | 64.094  | BMB  |
| 4             | 7.60            | Sulfate   | 91.105       | 29.092         | 6.24          | 59.125  | BMB  |
| <b>Total:</b> |                 |           | 1307.249     | 466.166        | 100.00        | 532.279 |      |

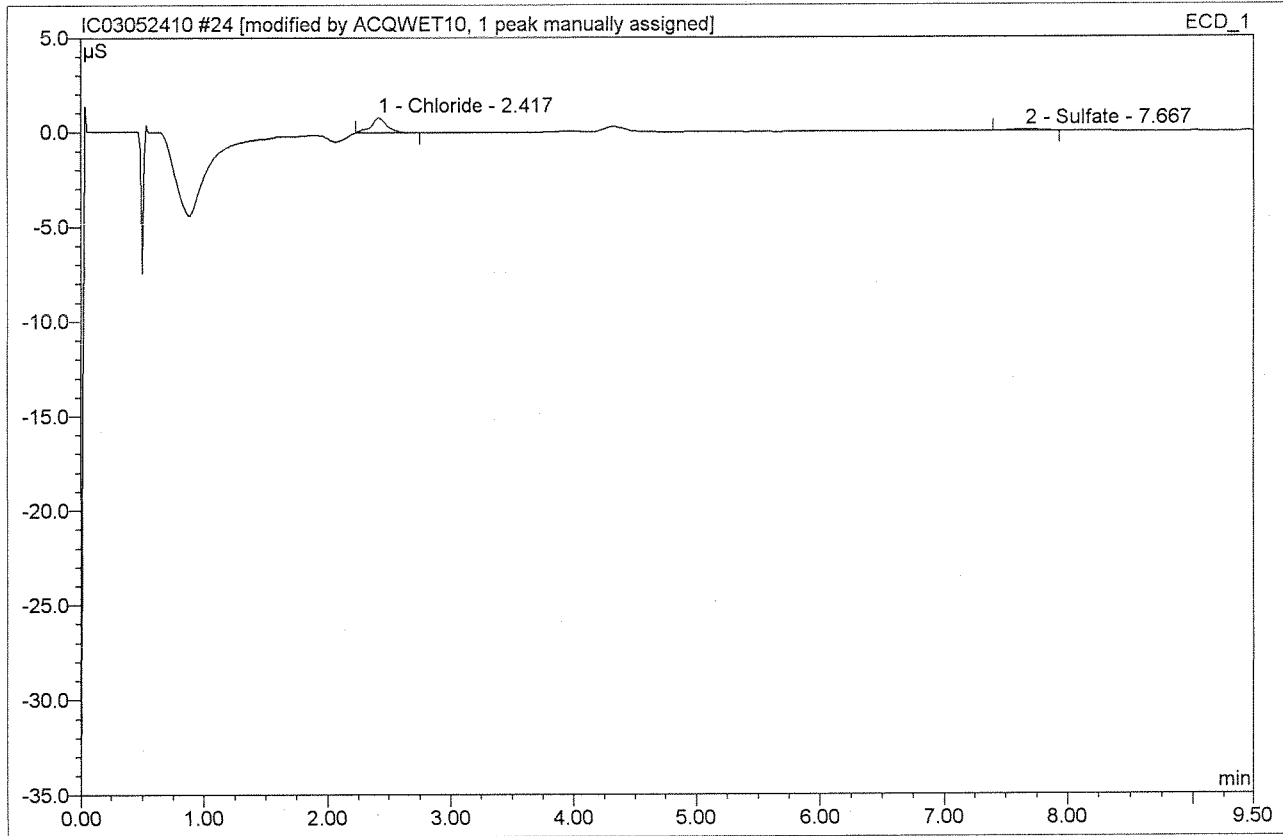
After Initials LB

MAY 24 2010

*Handwritten signature and date: 5/25/10*

**24 K1004575-004**

|                  |                        |                   |               |
|------------------|------------------------|-------------------|---------------|
| Sample Name:     | <b>K1004575-004</b>    | Injection Volume: | <b>200.0</b>  |
| Vial Number:     | <b>23</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:     | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program: | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method: | <b>epa300</b>          | Dilution Factor:  | <b>2.0000</b> |
| Recording Time:  | <b>5/24/2010 12:51</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):  | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount       | Type   |
|---------------|------------------|-----------|--------------|----------------|----------------|--------------|--------|
| 1             | 2.42             | Chloride  | 0.770        | 0.113          | 84.29          | 0.145        | BMB**^ |
| 2             | 7.67             | Sulfate   | 0.085        | 0.021          | 15.71          | 0.043        | BMB*   |
| <b>Total:</b> |                  |           | <b>0.855</b> | <b>0.134</b>   | <b>100.00</b>  | <b>0.187</b> |        |

Fluoride - ND < 0.006

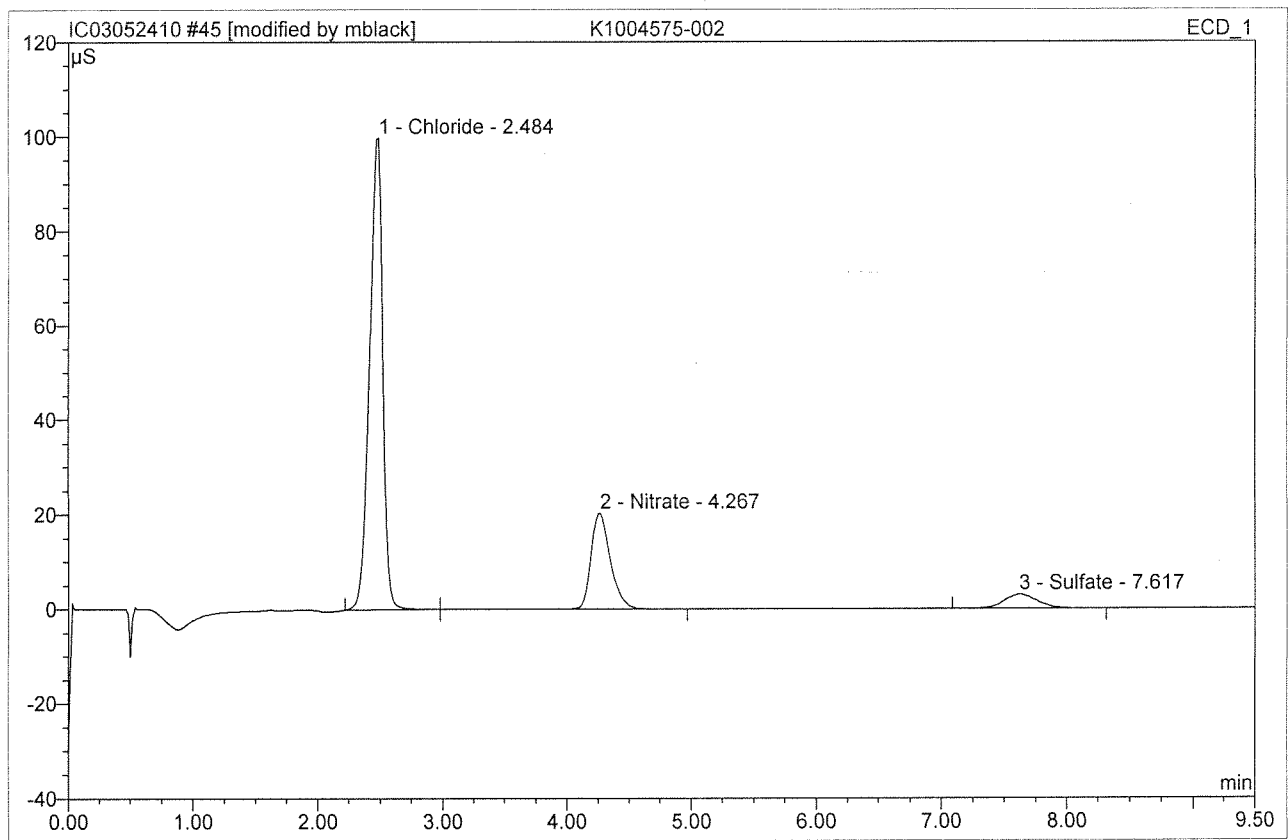
After Initials *LB*

MAY 24 2010

*OK 5/25/10*

# 45 K1004575-002

|  |                                 |
|--|---------------------------------|
| Sample Name: <b>K1004575-002</b>       | Injection Volume: <b>200.0</b>  |
| Vial Number: <b>44</b>                 | Channel: <b>ECD_1</b>           |
| Sample Type: <b>unknown</b>            | Wavelength: <b>n.a.</b>         |
| Control Program: <b>epa300</b>         | Bandwidth: <b>n.a.</b>          |
| Quantif. Method: <b>epa300</b>         | Dilution Factor: <b>50.0000</b> |
| Recording Time: <b>5/24/2010 17:02</b> | Sample Weight: <b>1.0000</b>    |
| Run Time (min): <b>9.50</b>            | Sample Amount: <b>1.0000</b>    |



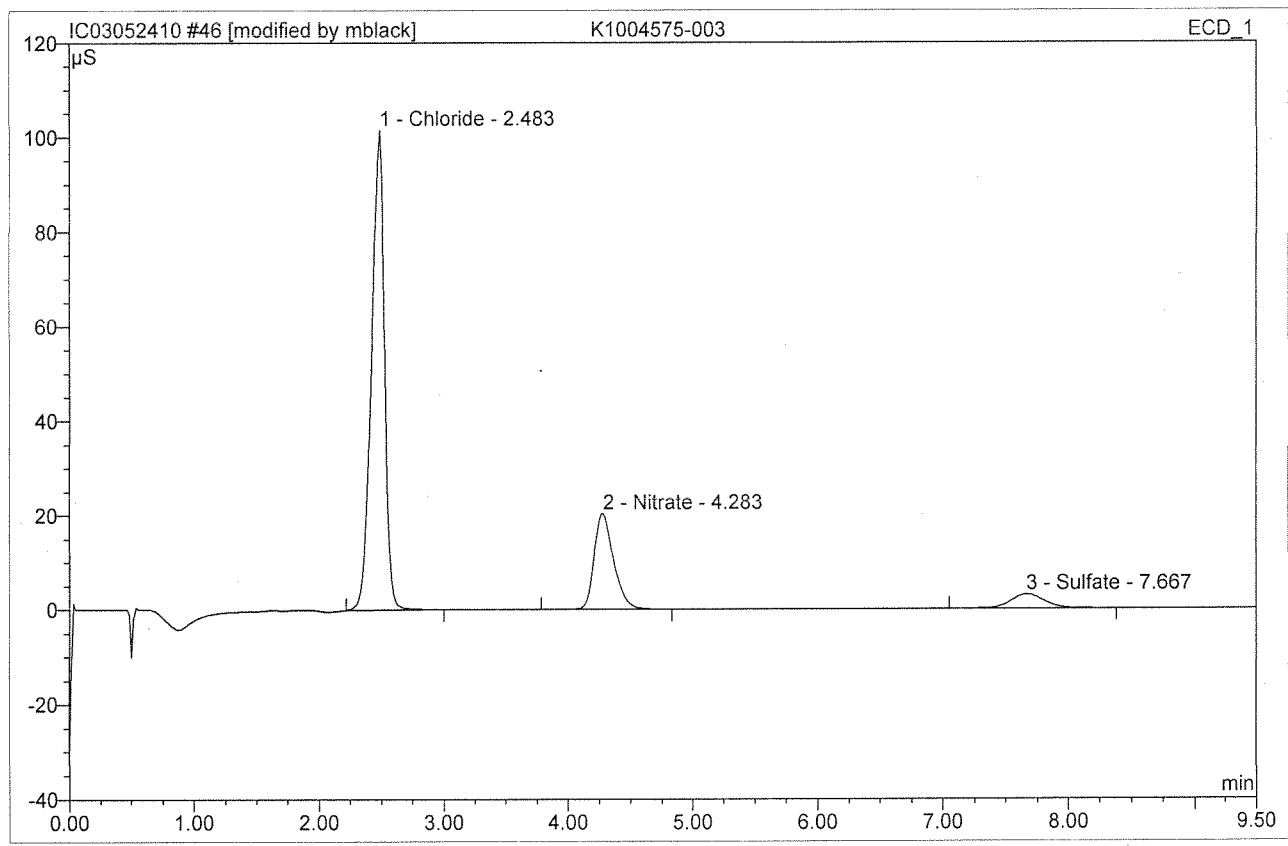
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|------|
| 1             | 2.48            | Chloride  | 99.764       | 12.017         | 72.58         | 385.289 | BMB* |
| 2             | 4.27            | Nitrate   | 20.252       | 3.626          | 21.90         | 49.215  | bMB* |
| 3             | 7.62            | Sulfate   | 3.002        | 0.915          | 5.53          | 46.490  | BMB  |
| <b>Total:</b> |                 |           | 123.018      | 16.559         | 100.00        | 480.994 |      |

After Initials MB

MAY 25 2010

*Handwritten:* MB 5/25/10

|                        |                        |                   |                |
|------------------------|------------------------|-------------------|----------------|
| <b>46 K1004575-003</b> |                        |                   |                |
| Sample Name:           | <b>K1004575-003</b>    | Injection Volume: | <b>200.0</b>   |
| Vial Number:           | <b>45</b>              | Channel:          | <b>ECD_1</b>   |
| Sample Type:           | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>    |
| Control Program:       | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>    |
| Quantif. Method:       | <b>epa300</b>          | Dilution Factor:  | <b>50.0000</b> |
| Recording Time:        | <b>5/24/2010 17:14</b> | Sample Weight:    | <b>1.0000</b>  |
| Run Time (min):        | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b>  |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount  | Type |
|---------------|--------------|-----------|-----------|-------------|------------|---------|------|
| 1             | 2.48         | Chloride  | 101.488   | 12.088      | 72.43      | 387.540 | BMB* |
| 2             | 4.28         | Nitrate   | 20.252    | 3.677       | 22.03      | 49.910  | BMB* |
| 3             | 7.67         | Sulfate   | 3.017     | 0.925       | 5.54       | 46.978  | BMB  |
| <b>Total:</b> |              |           | 124.757   | 16.690      | 100.00     | 484.428 |      |

After Initials MB

*Handwritten signature*  
5/25/10

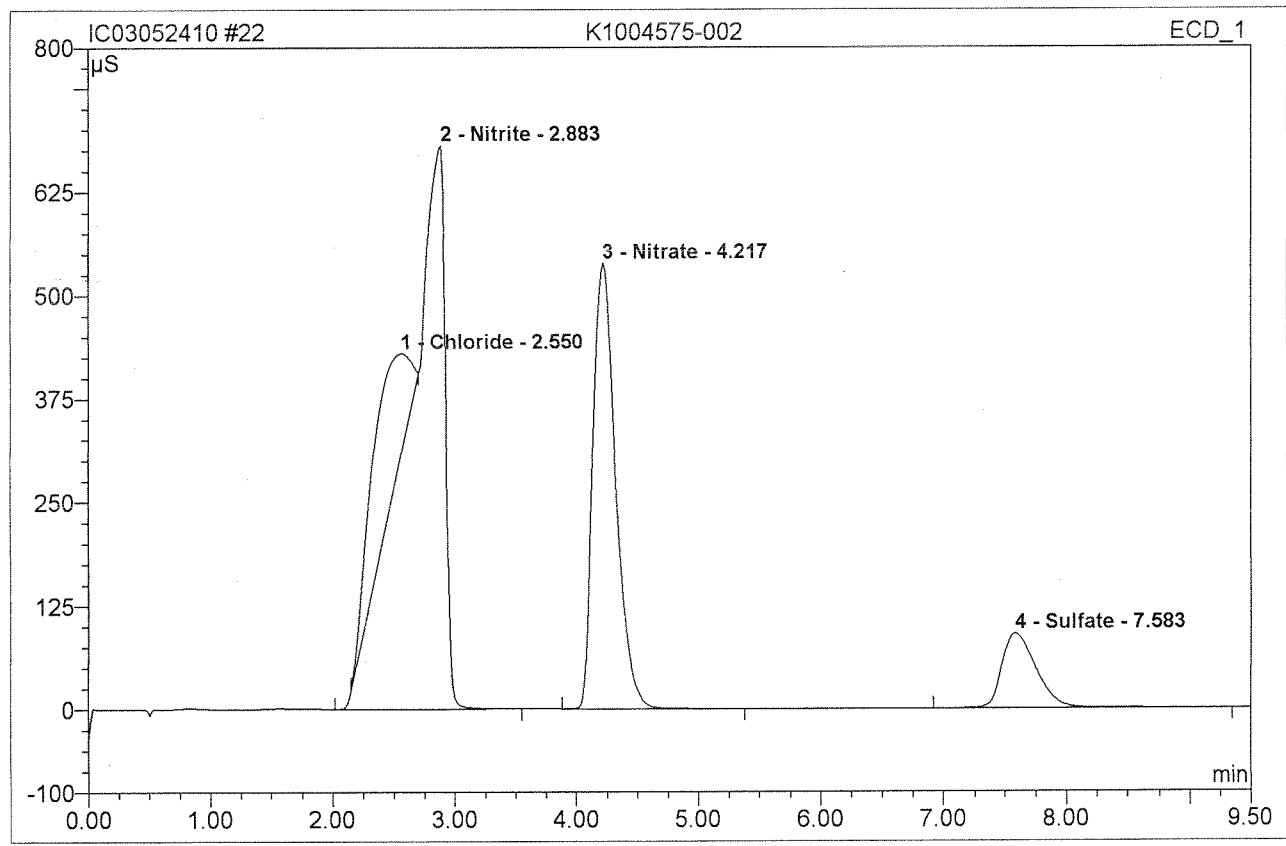
MAY 25 2010

Wrong Peak/Peak not Found  
 No. baseline/shoulder incorrect  
Order \_\_\_\_\_



**22 K1004575-002**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004575-002    | Injection Volume: | 200.0  |
| Vial Number:     | 21              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 12:27 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



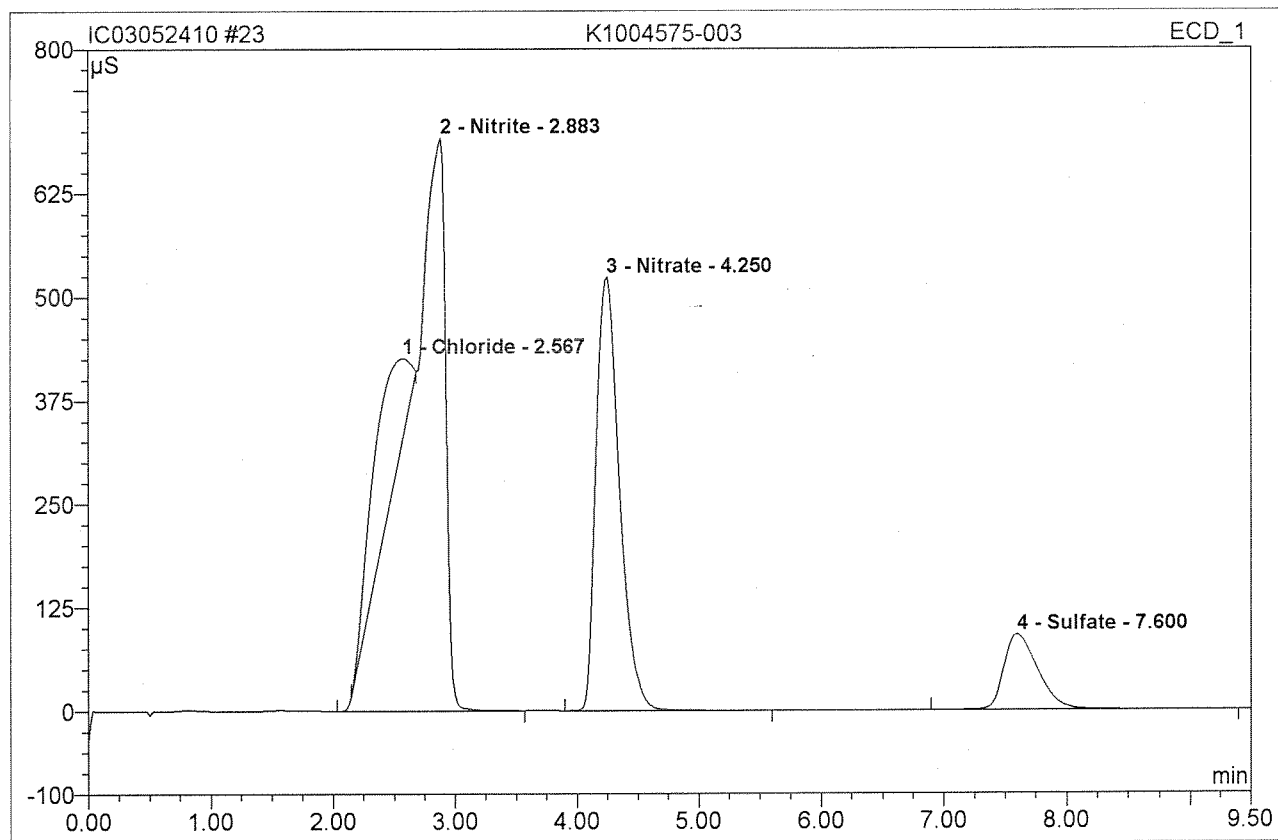
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|------|
| 1             | 2.55            | Chloride  | 128.051      | 59.054         | 12.73         | 75.733  | Ru   |
| 2             | 2.88            | Nitrite   | 680.846      | 258.145        | 55.65         | 178.812 | BMB  |
| 3             | 4.22            | Nitrate   | 538.616      | 117.565        | 25.34         | 63.826  | BMB  |
| 4             | 7.58            | Sulfate   | 90.660       | 29.126         | 6.28          | 59.195  | BMB  |
| <b>Total:</b> |                 |           | 1438.174     | 463.891        | 100.00        | 377.566 |      |

Before

MAY 24 2010

**23 K1004575-003**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004575-003    | Injection Volume: | 200.0  |
| Vial Number:     | 22              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 12:39 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



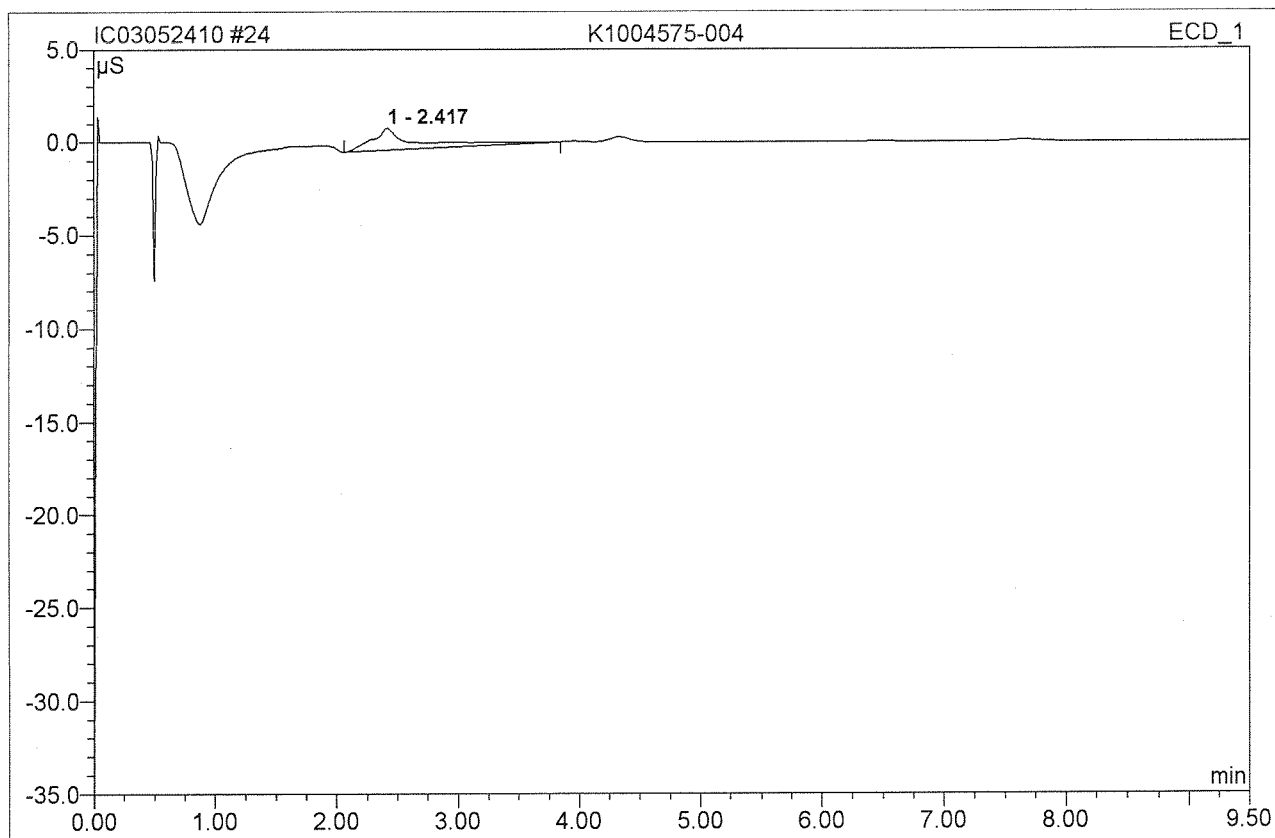
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|------|
| 1             | 2.57            | Chloride  | 101.347      | 51.584         | 11.07         | 66.153  | Ru   |
| 2             | 2.88            | Nitrite   | 691.967      | 267.205        | 57.35         | 185.088 | BMB  |
| 3             | 4.25            | Nitrate   | 523.195      | 118.060        | 25.34         | 64.094  | BMB  |
| 4             | 7.60            | Sulfate   | 91.105       | 29.092         | 6.24          | 59.125  | BMB  |
| <b>Total:</b> |                 |           | 1407.614     | 465.941        | 100.00        | 374.461 |      |

Before

MAY 24 2010

**24 K1004575-004**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004575-004    | Injection Volume: | 200.0  |
| Vial Number:     | 23              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 12:51 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



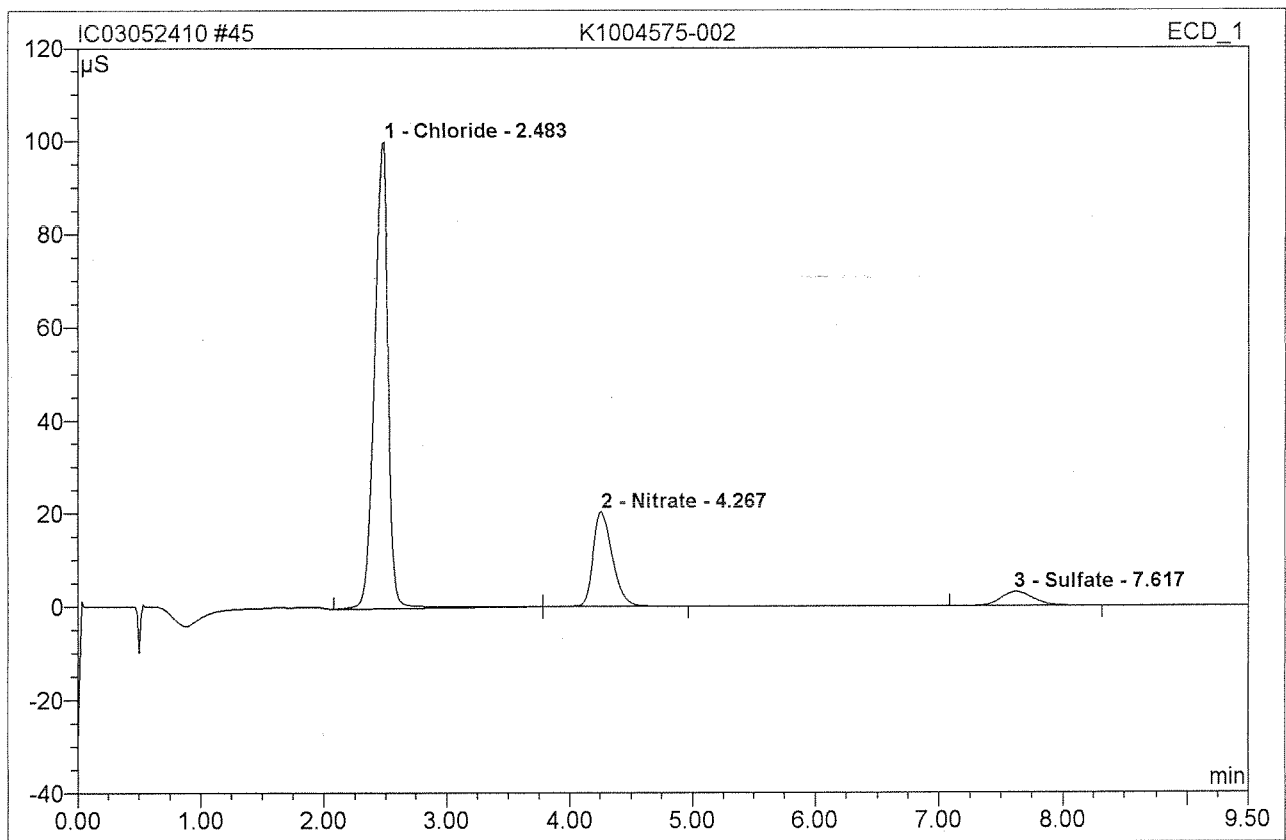
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.42             | n.a.      | 1.170        | 0.496          | 100.00         | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 1.170        | 0.496          | 100.00         | 0.000  |      |

Before

MAY 24 2010

**45 K1004575-002**

|                  |                 |                   |         |
|------------------|-----------------|-------------------|---------|
| Sample Name:     | K1004575-002    | Injection Volume: | 200.0   |
| Vial Number:     | 44              | Channel:          | ECD_1   |
| Sample Type:     | unknown         | Wavelength:       | n.a.    |
| Control Program: | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:  | 5/24/2010 17:02 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000  |

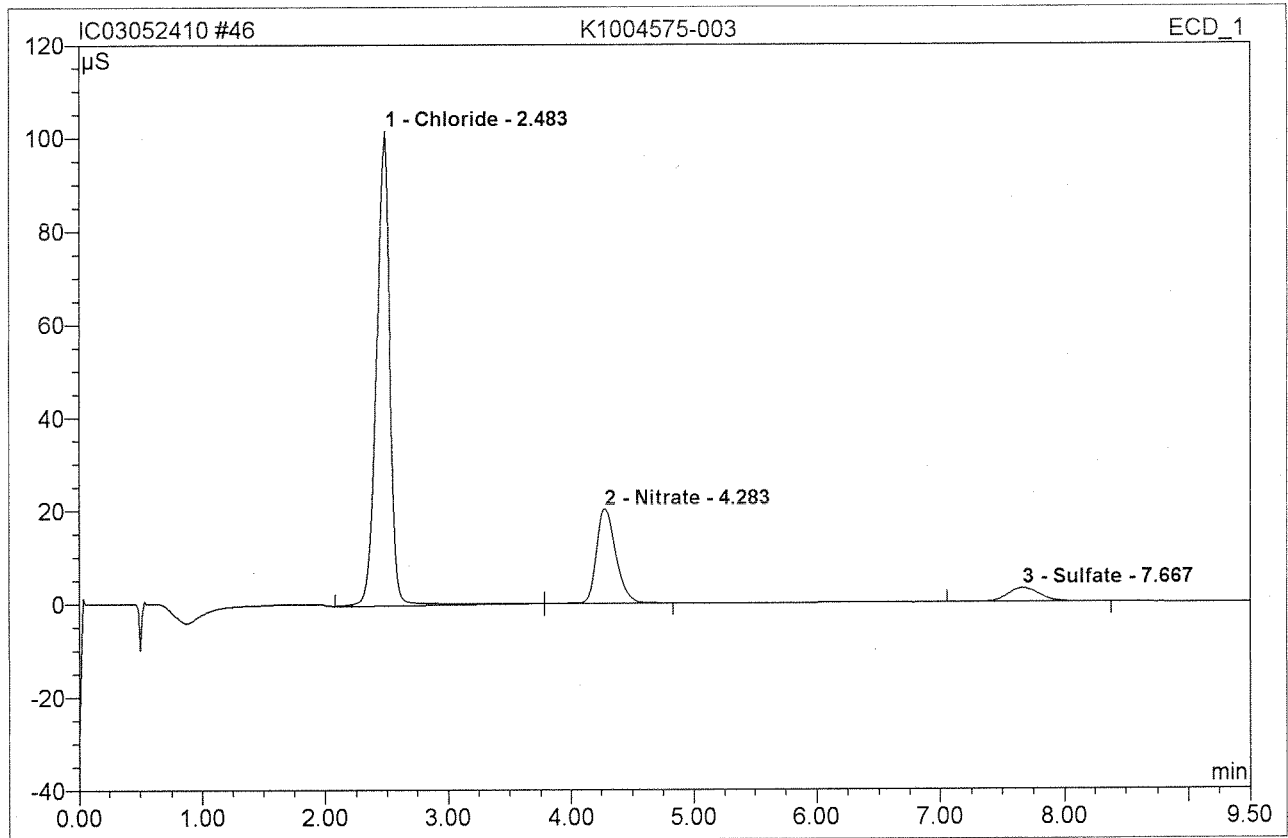


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|------|
| 1             | 2.48            | Chloride  | 100.104      | 12.391         | 73.04         | 397.258 | BMB  |
| 2             | 4.27            | Nitrate   | 20.266       | 3.659          | 21.57         | 49.659  | bMB  |
| 3             | 7.62            | Sulfate   | 3.002        | 0.915          | 5.39          | 46.490  | BMB  |
| <b>Total:</b> |                 |           | 123.372      | 16.965         | 100.00        | 493.408 |      |

Before

MAY 25 2010

|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>46 K1004575-003</b> |                 |                   |         |
| Sample Name:           | K1004575-003    | Injection Volume: | 200.0   |
| Vial Number:           | 45              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/24/2010 17:14 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |



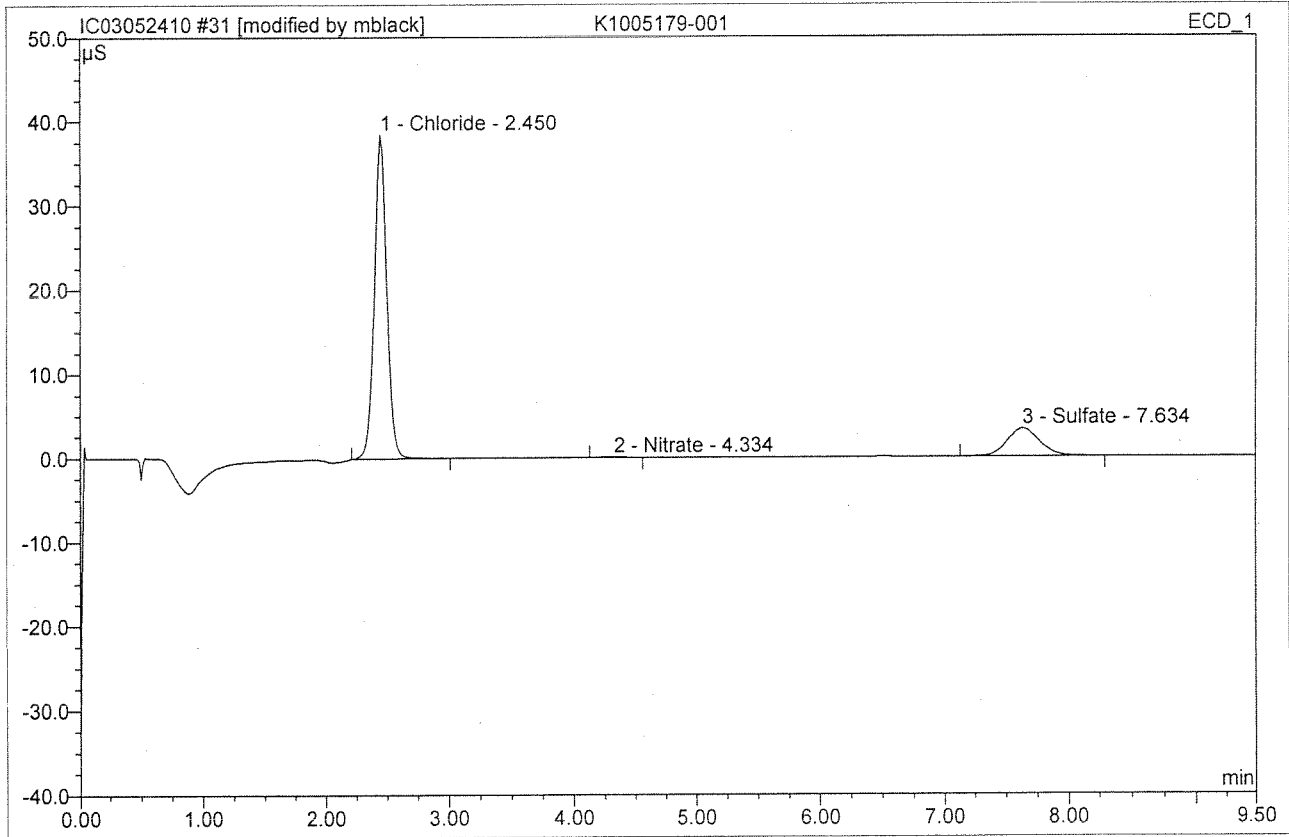
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.48             | Chloride  | 101.803      | 12.436         | 72.99          | 398.704 | BMB  |
| 2             | 4.28             | Nitrate   | 20.252       | 3.677          | 21.58          | 49.910  | bMB  |
| 3             | 7.67             | Sulfate   | 3.017        | 0.925          | 5.43           | 46.978  | BMB  |
| <b>Total:</b> |                  |           | 125.071      | 17.038         | 100.00         | 495.592 |      |

Before

MAY 25 2010



|                        |                        |                   |               |
|------------------------|------------------------|-------------------|---------------|
| <b>31 K1005179-001</b> |                        |                   |               |
| Sample Name:           | <b>K1005179-001</b>    | Injection Volume: | <b>200.0</b>  |
| Vial Number:           | <b>30</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:           | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program:       | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method:       | <b>epa300</b>          | Dilution Factor:  | <b>2.0000</b> |
| Recording Time:        | <b>5/24/2010 14:15</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):        | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret.Time<br>min | Peak Name                       | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount                        | Type |
|---------------|-----------------|---------------------------------|--------------|----------------|---------------|-------------------------------|------|
| 1             | 2.45            | Chloride $\bar{X}=5.94$ RPD=10% | 38.489       | 4.402          | 81.07         | 5.645                         | BMB* |
| 2             | 4.33            | <del>Nitrate</del> $\bar{X}=12$ | 0.105        | 0.018          | 0.33          | <del>0.010</del> $\bar{X}=12$ | BMB* |
| 3             | 7.63            | Sulfate $\bar{X}=2.06$ RPD=11%  | 3.323        | 1.009          | 18.59         | 2.051                         | BMB  |
| <b>Total:</b> |                 |                                 | 41.917       | 5.429          | 100.00        | 7.706                         |      |

Fluoride = ND < 0.006  
Bromide = ND < 0.008  
 $\bar{X}$  END RPD = —

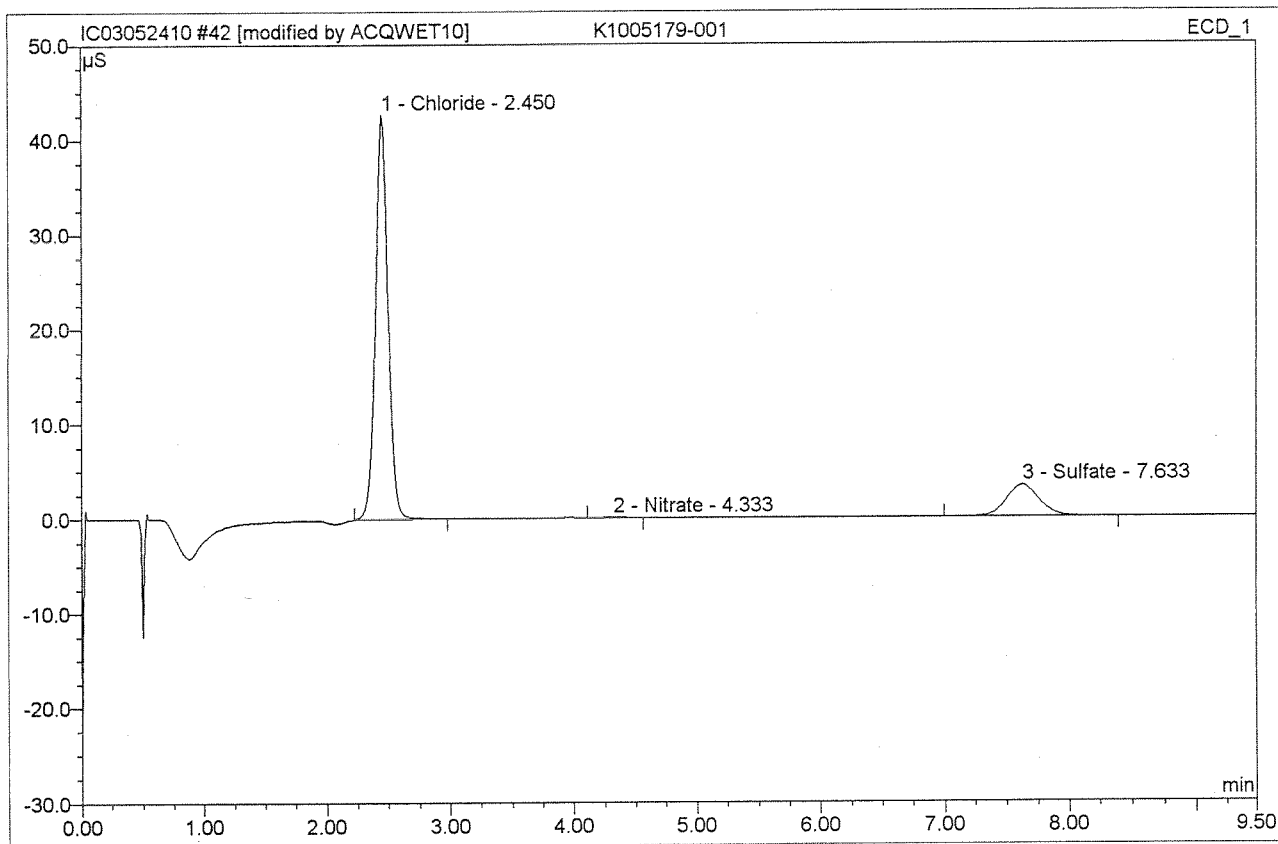
After Initials

**MS**

*MS* 5/25/10

MAY 24 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>42 K1005179-001</b> |                 |                   |        |
| <b>5179-1D</b>         |                 |                   |        |
| Sample Name:           | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:           | 41              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 16:26 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height $\mu$ S | Area $\mu$ S*min | Rel. Area % | Amount | Type |
|---------------|---------------|-----------|----------------|------------------|-------------|--------|------|
| 1             | 2.45          | Chloride  | 42.581         | 4.858            | 82.45       | 6.230  | BMB* |
| 2             | 4.33          | Nitrate   | 0.101          | 0.018            | 0.30        | 0.010  | BMB* |
| 3             | 7.63          | Sulfate   | 3.330          | 1.016            | 17.24       | 2.064  | BMB  |
| <b>Total:</b> |               |           | 46.013         | 5.891            | 100.00      | 8.304  |      |

Fluoride = ND <0.006

Bromide = ND <0.008

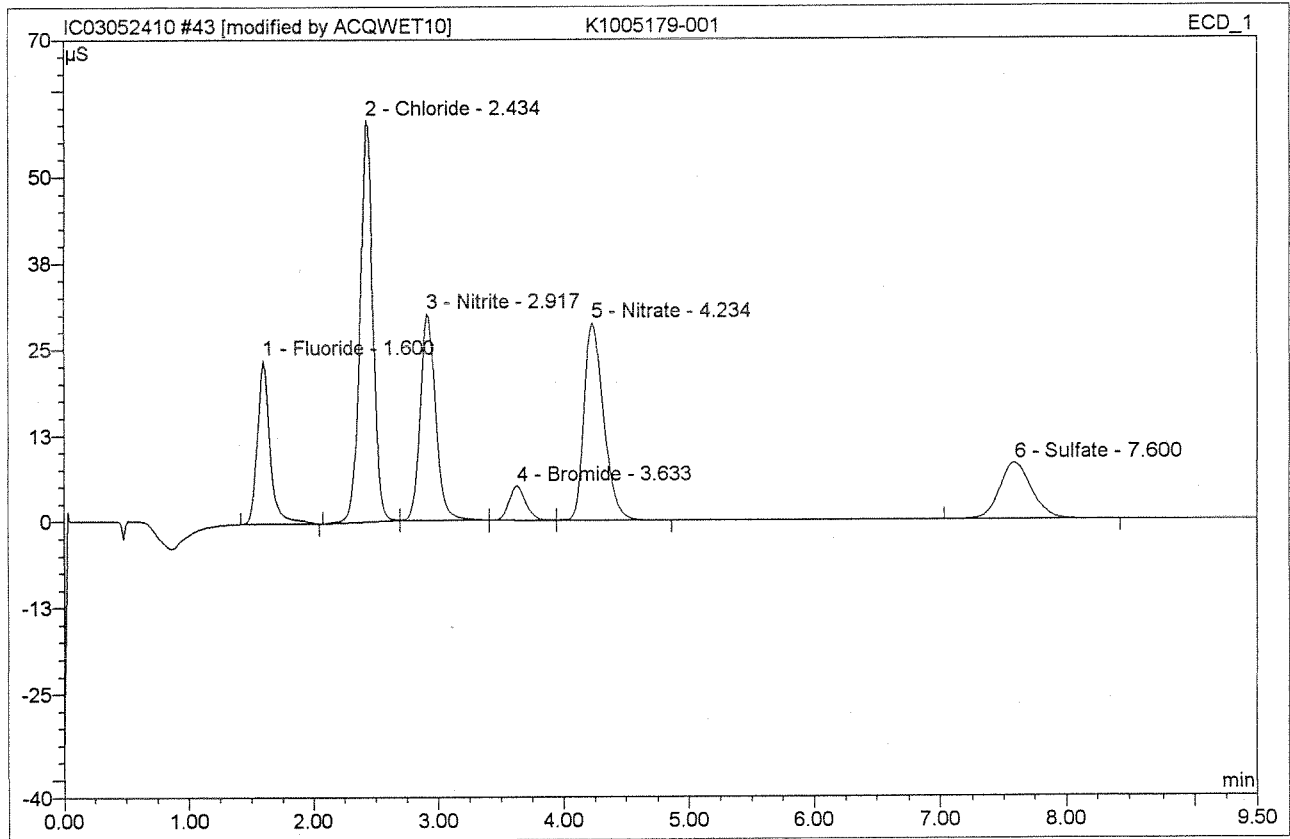
Alter  
Labels

*MB*

*JE 5/25/10*

MAY 24 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>43 K1005179-001</b> |                 |                   |        |
| <b>5179-1MS</b>        |                 |                   |        |
| Sample Name:           | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:           | 42              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 16:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



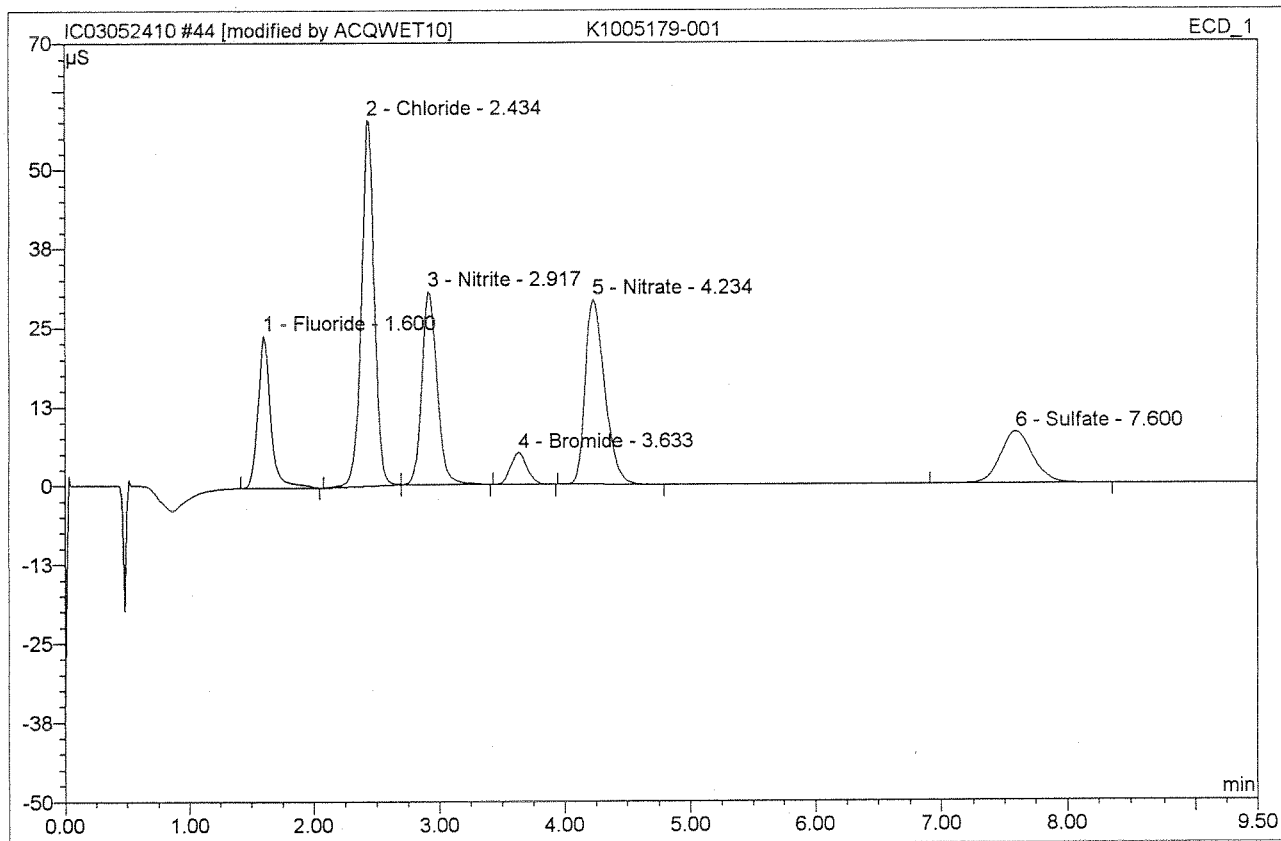
| No.           | Ret. Time min | Peak Name | Height µS | Area µS*min | Rel. Area % | Amount    | Type |
|---------------|---------------|-----------|-----------|-------------|-------------|-----------|------|
| 1             | 1.60          | Fluoride  | 23.880    | 2.844       | 12.64       | 2.97399%  | BMB* |
| 2             | 2.43          | Chloride  | 58.245    | 6.938       | 30.83       | 8.898168% | BMB  |
| 3             | 2.92          | Nitrite   | 30.027    | 4.290       | 19.06       | 2.97299%  | bMb  |
| 4             | 3.63          | Bromide   | 4.984     | 0.764       | 3.39        | 2.85015%  | bMb  |
| 5             | 4.23          | Nitrate   | 28.677    | 5.220       | 23.19       | 2.83494%  | bMB  |
| 6             | 7.60          | Sulfate   | 8.245     | 2.451       | 10.89       | 4.98198%  | BMB  |
| <b>Total:</b> |               |           | 154.058   | 22.507      | 100.00      | 25.507    |      |

After Initials MS

*Handwritten signature* 5/25/10

MAY 24 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>44 K1005179-001</b> |                 |                   |        |
| <b>5179-1MSD</b>       |                 |                   |        |
| Sample Name:           | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:           | 43              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 16:50 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height µS | Area µS*min | Rel. Area % | Amount    | Type |
|---------------|---------------|-----------|-----------|-------------|-------------|-----------|------|
| 1             | 1.60          | Fluoride  | 24.078    | 2.874       | 12.63       | 3.004100? | BMB* |
| 2             | 2.43          | Chloride  | 57.833    | 6.968       | 30.63       | 8.936110? | BMB  |
| 3             | 2.92          | Nitrite   | 30.414    | 4.341       | 19.08       | 3.007100? | bMB  |
| 4             | 3.63          | Bromide   | 5.067     | 0.778       | 3.42        | 2.90577?  | BMB  |
| 5             | 4.23          | Nitrate   | 29.257    | 5.317       | 23.37       | 2.88696?  | BMB  |
| 6             | 7.60          | Sulfate   | 8.247     | 2.470       | 10.86       | 5.02199?  | BMB  |
| <b>Total:</b> |               |           | 154.897   | 22.749      | 100.00      | 25.759    |      |

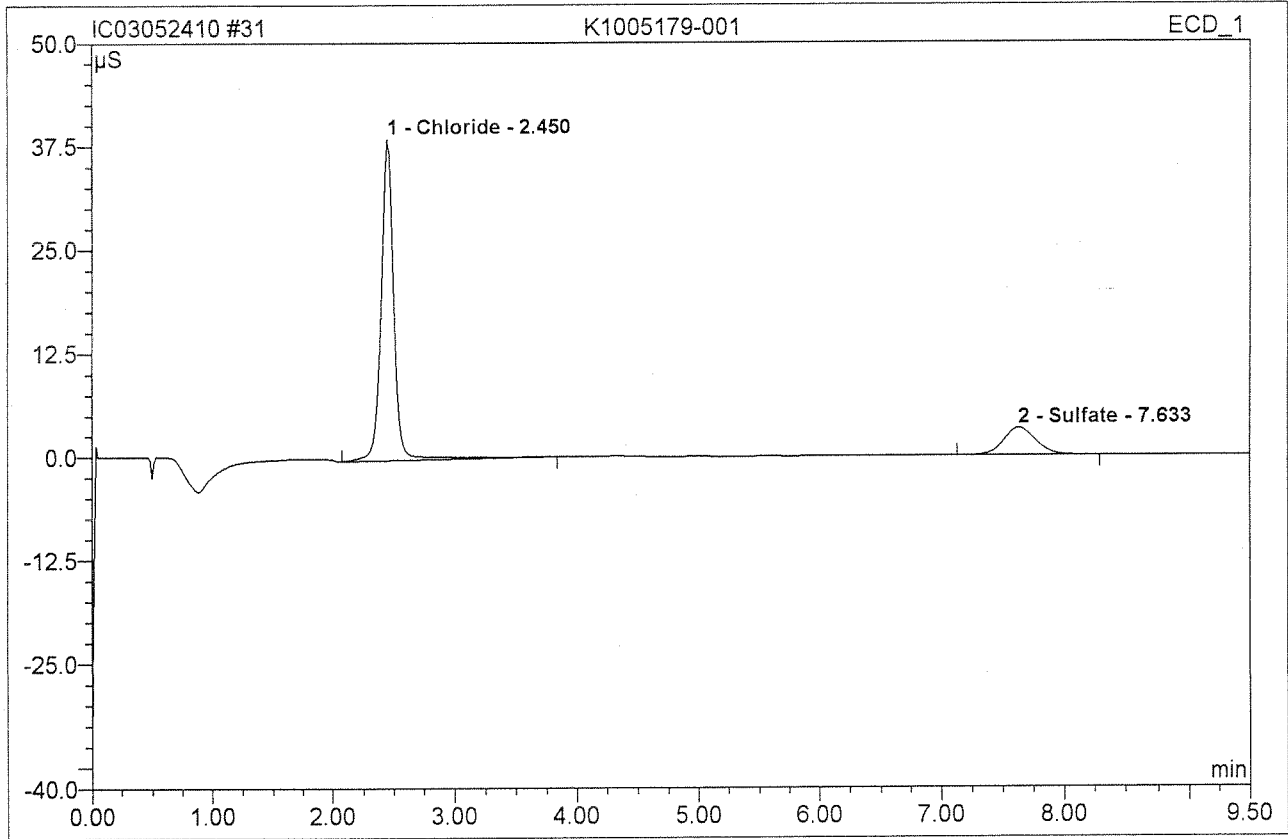
APer  
Initials

MB

5/25/10

MAY 24 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>31 K1005179-001</b> |                 |                   |        |
| Sample Name:           | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:           | 30              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 14:15 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 2.45             | Chloride  | 38.806                  | 4.743                                | 82.45          | 6.083  | BMB  |
| 2             | 7.63             | Sulfate   | 3.323                   | 1.009                                | 17.55          | 2.051  | BMB  |
| <b>Total:</b> |                  |           | 42.129                  | 5.753                                | 100.00         | 8.134  |      |

Before

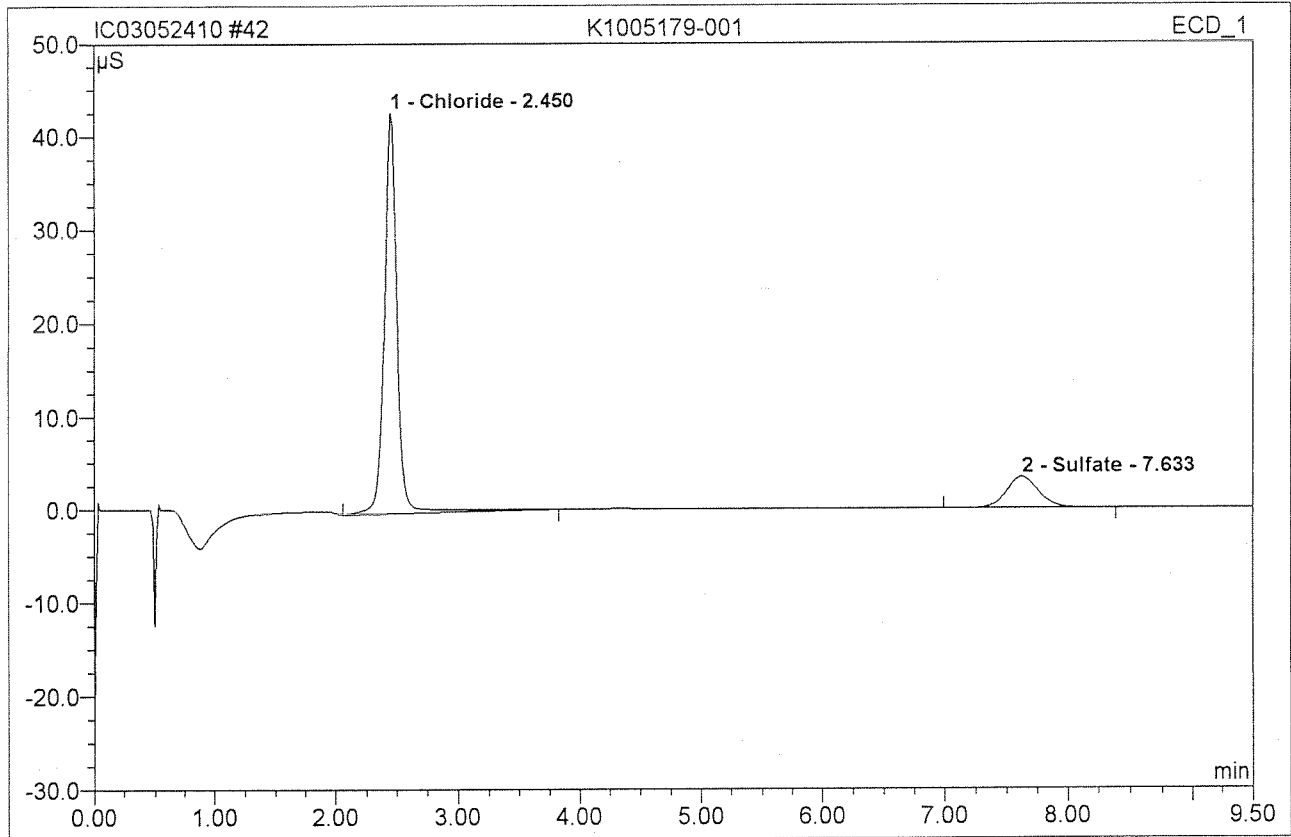
MAY 24 2010



**42 K1005179-001**

**5179-1D**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:     | 41              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 16:26 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

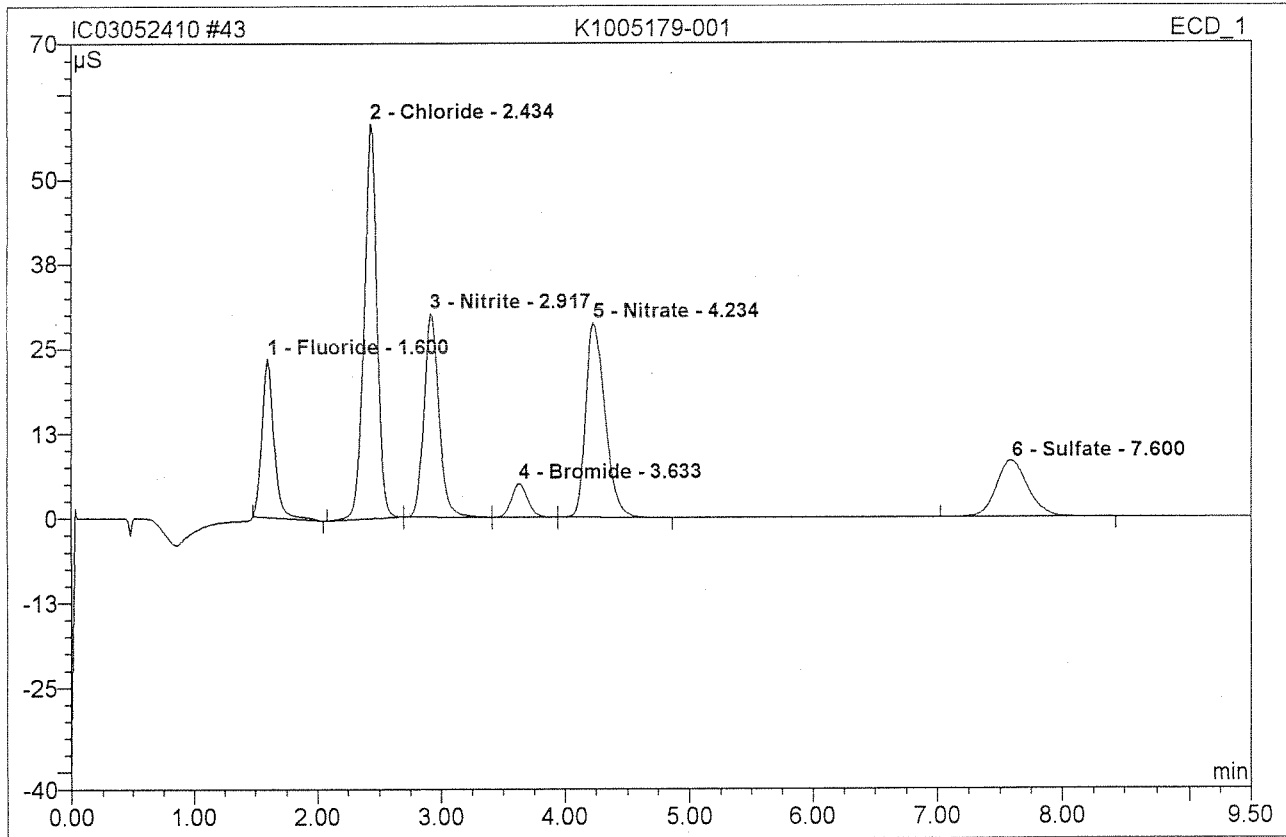


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.45            | Chloride  | 42.955       | 5.235          | 83.75         | 6.713  | BMB  |
| 2             | 7.63            | Sulfate   | 3.330        | 1.016          | 16.25         | 2.064  | BMB  |
| <b>Total:</b> |                 |           | 46.285       | 6.251          | 100.00        | 8.778  |      |

Before

MAY 24 2010

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>43 K1005179-001</b> |                 |                   |        |
| <b>5179-1MS</b>        |                 |                   |        |
| Sample Name:           | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:           | 42              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/24/2010 16:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.60         | Fluoride  | 23.341    | 2.641       | 11.84      | 2.761  | BMB  |
| 2             | 2.43         | Chloride  | 58.245    | 6.938       | 31.11      | 8.898  | BMb  |
| 3             | 2.92         | Nitrite   | 30.027    | 4.290       | 19.23      | 2.972  | bMb  |
| 4             | 3.63         | Bromide   | 4.984     | 0.764       | 3.42       | 2.850  | bMb  |
| 5             | 4.23         | Nitrate   | 28.677    | 5.220       | 23.41      | 2.834  | bMB  |
| 6             | 7.60         | Sulfate   | 8.245     | 2.451       | 10.99      | 4.981  | BMB  |
| <b>Total:</b> |              |           | 153.519   | 22.304      | 100.00     | 25.295 |      |

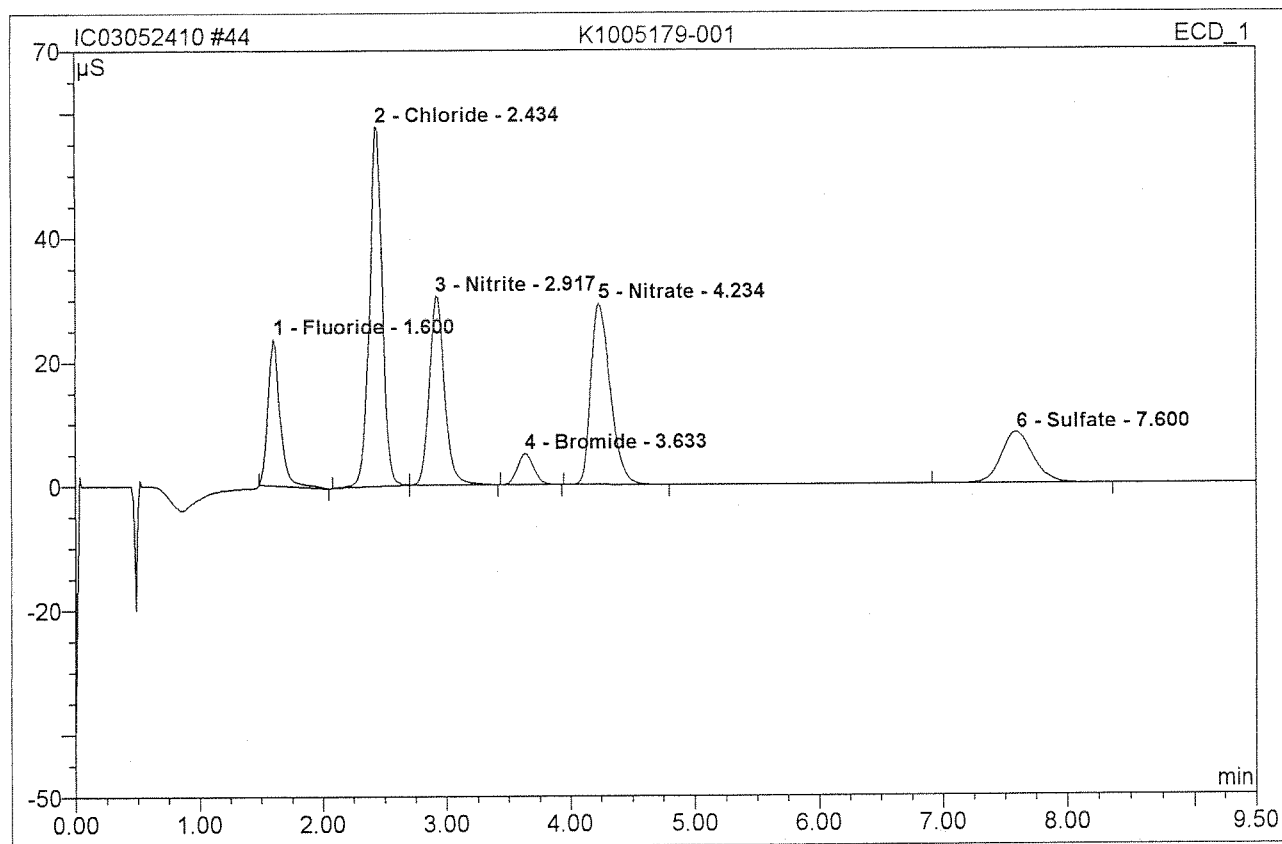
Before

MAY 24 2010

**44 K1005179-001**

**5179-1MSD**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1005179-001    | Injection Volume: | 200.0  |
| Vial Number:     | 43              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 16:50 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.60         | Fluoride  | 23.578    | 2.685       | 11.90      | 2.806  | BMB  |
| 2             | 2.43         | Chloride  | 57.833    | 6.968       | 30.89      | 8.936  | BMB  |
| 3             | 2.92         | Nitrite   | 30.414    | 4.341       | 19.24      | 3.007  | bMB  |
| 4             | 3.63         | Bromide   | 5.067     | 0.778       | 3.45       | 2.905  | BMB  |
| 5             | 4.23         | Nitrate   | 29.257    | 5.317       | 23.57      | 2.886  | BMB  |
| 6             | 7.60         | Sulfate   | 8.247     | 2.470       | 10.95      | 5.021  | BMB  |
| <b>Total:</b> |              |           | 154.397   | 22.560      | 100.00     | 25.562 |      |

Before

MAY 24 2010

- 1. Holding times met for all samples analyzed? Yes/no/NA
- 2. Are dilutions within upper limits of the curve? Yes/no/NA
- 3. Are analysis/extraction stickers included on report? Yes/no/NA
- 4. Are detection limits reported correctly? Yes/no/NA
- 5. Are all quality control criteria met? Yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? Yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? Yes/no/NA
  - c. Are results for Method Blanks all ND? Yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) Yes/no/NA
  - e. Are all exceptions explained? Yes/no/NA
- 6. Are all samples labelled correctly? Yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

|          |                       |                                  |                          |
|----------|-----------------------|----------------------------------|--------------------------|
| LCS      |                       |                                  |                          |
| Fluoride | True Value = 13.5 ppm | CAS ID # = <u>AN1-33-D</u>       | Expires: <u>7/19/10</u>  |
| Chloride | True Value = 5.0ppm   | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/10</u>     |
| Nitrite  | True Value = 100 ppm  | CAS ID # = <u>NR</u>             | Expires: <u>NR</u>       |
| Bromide  | True Value = 4.0 ppm  | CAS ID # = <u>AN1-33-L</u>       | Expires: <u>10/28/10</u> |
| Nitrate  | True Value = 21.0 ppm | CAS ID # = <u>AN1-33-E</u>       | Expires: <u>NR</u>       |
| Sulfate  | True Value = 5.0 ppm  | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/10</u>     |

|          |                      |                                 |                          |
|----------|----------------------|---------------------------------|--------------------------|
| CCV      |                      |                                 |                          |
| Fluoride | True Value = 5.0 ppm | CAS ID # = <u>AN11-20-J</u>     | Expires <u>5/24/10</u>   |
| Chloride | True Value = 5.0 ppm | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: <u>10/28/10</u> |
| Nitrite  | True Value = 2.0 ppm | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: <u>8/5/10</u>   |
| Bromide  | True Value = 2.0 ppm | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: <u>NR</u>       |
| Nitrate  | True Value = 2.0 ppm | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: <u>6/21/10</u>  |
| Sulfate  | True Value = 5.0 ppm | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: <u>NR</u>       |
|          |                      | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: <u>8/5/10</u>   |

|                          |                                 |                        |                    |
|--------------------------|---------------------------------|------------------------|--------------------|
| Spike                    |                                 |                        |                    |
| 1.5ppm X dilution factor | CAS ID# = <u>AN11-10-0</u>      | Expires <u>5/24/10</u> |                    |
| Fluoride                 | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: _____         | } See 10K CCV FD's |
| Chloride                 | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: _____         |                    |
| Nitrite                  | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: _____         |                    |
| Bromide                  | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: _____         |                    |
| Nitrate                  | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: _____         |                    |
| Sulfate                  | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: _____         |                    |

Analyst: AB Date: 5/24/10  
 First Review: AB Date: 5/24/10  
 Final Review: [Signature] Date: 5/24/10  
 t:\wet\ic\dqs.xls

| Service Request  | Tier | QC | Hold Time | Due Date | Anion | Initial | Final  | QC DILUTION | Done? |  |
|------------------|------|----|-----------|----------|-------|---------|--------|-------------|-------|--|
| K 4470-4         | II   |    |           | 5/29     | F     |         |        |             |       |  |
| Barr             |      |    |           |          | CL    |         |        |             |       |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | NO3   |         |        |             |       |  |
|                  |      |    |           |          | SO4   | 0.25/5  |        |             | ✓     |  |
| -8               |      |    |           |          |       |         |        |             |       |  |
|                  |      |    |           |          | F     |         |        |             |       |  |
|                  |      |    |           |          | CL    |         |        |             |       |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | SO4   | 1/5     | 2.5/5  |             | ✓     |  |
| K 4575-1         | III  |    |           | 5/29     | F     |         |        |             |       |  |
| Exponent         |      |    |           |          | CL    |         |        |             |       |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | NO3   |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         | 1/5    |             | ✓     |  |
| -2               |      |    |           |          |       |         |        |             |       |  |
|                  |      |    |           |          | F     | 2.5/5   |        |             | ✓     |  |
|                  |      |    |           |          | CL    |         | 0.1/5  |             | ✓     |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         | 0.1/5  |             | ✓     |  |
| -3               |      |    |           |          |       |         |        |             |       |  |
|                  |      |    |           |          | F     | 2.5/5   |        |             | ✓     |  |
|                  |      |    |           |          | CL    |         | 0.1/5  |             | ✓     |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         | 0.1/5  |             | ✓     |  |
| -4               |      |    |           |          |       |         |        |             |       |  |
|                  |      |    |           |          | F     | 2.5/5   |        |             | ✓     |  |
|                  |      |    |           |          | CL    |         |        |             | ✓     |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         |        |             | ✓     |  |
| K 4776-3         | I    |    |           | 5/29     | F     | 2.5/5   |        |             |       |  |
| City of Longview |      |    |           |          | CL    |         |        |             |       |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             |       |  |
|                  |      |    |           |          | NO3   |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         |        |             |       |  |
| K 4839-1         | III  |    |           | 5/30     | F     |         |        |             |       |  |
| Accos            |      |    |           |          | CL    |         |        |             |       |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    | 2.5/5   |        |             | ✓     |  |
|                  |      |    |           |          | NO3   |         |        |             |       |  |
|                  |      |    |           |          | SO4   |         |        |             |       |  |
| K 5179-1         | III  | X  |           | 5/30     | F     | 2.5/5   | 2.5/5  |             |       |  |
| Integral         |      |    |           |          | CL    |         |        |             | ✓     |  |
|                  |      |    |           |          | NO2   |         |        |             | ✓     |  |
|                  |      |    |           |          | Br    |         |        |             | ✓     |  |
|                  |      |    |           |          | NO3   |         |        |             | ✓     |  |
|                  |      |    |           |          | SO4   |         |        |             | ✓     |  |
| -2               |      |    |           |          |       |         |        |             |       |  |
|                  |      |    |           |          | F     | 2.5/5   |        |             | ✓     |  |
|                  |      |    |           |          | CL    |         |        |             | ✓     |  |
|                  |      |    |           |          | NO2   |         |        |             |       |  |
|                  |      |    |           |          | Br    |         |        |             | ✓     |  |
|                  |      |    |           |          | SO4   |         | 0.25/5 |             | ✓     |  |



| Service Request         | Tier | QC | Hold Time | Due Date | Anion | Initial | Final  | QC DILUTION | Done? |
|-------------------------|------|----|-----------|----------|-------|---------|--------|-------------|-------|
| K 5179-3<br>Integral    | III  |    |           | 5/30     | F     | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | CL    |         |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             | ✓     |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   |         |        | ✓           |       |
| -4                      |      |    |           |          | F     | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | CL    |         |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             | ✓     |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   |         | 0.25/5 |             | ✓     |
| K 5182-1<br>Integral    | III  |    |           | 5/30     | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 0.25/5  |        |             | ✓     |
|                         |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 0.5/5   |        |             | ✓     |
| -2                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   |         |        |             | ✓     |
| -3                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 1/5     | 0.1/5  |             |       |
| K 4896-1<br>Douglas Co. | II   |    |           | 5/31     | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 1000 X  | 1/5    |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 5 X     |        |             | ✓     |
| -2                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 500 X   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 2.5/5   |        |             | ✓     |
| -3                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   | 1000 X |             |       |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 0.25/5  | 2.5/5  |             | ✓     |
| -4                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 0.1/5   | 500 X  |             |       |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 1/5     |        |             | ✓     |
| -5                      |      |    |           |          | F     |         |        |             |       |
|                         |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                         |      |    |           |          | NO2   |         |        |             |       |
|                         |      |    |           |          | Br    |         |        |             |       |
|                         |      |    |           |          | NO3   |         |        |             |       |
|                         |      |    |           |          | SO4   | 2.5/5   |        |             | ✓     |

Title:  
 Datasource: ACQWET10\_local  
 Location: DX120A  
 Timebase: DX120  
 #Samples: 66

Created: 5/24/2010 9:08:20 AM by ACQWET10  
 Last Update: 5/24/2010 4:50:27 PM by ACQWET10











































| No. | Name                  | Type     | Pos. | Inj. Vol. | Program | Method | Status   | Inj. Date/Time        |
|-----|-----------------------|----------|------|-----------|---------|--------|----------|-----------------------|
| 1   | std2/lv2              | Standard | 1    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 8:54:58 AM  |
| 2   | std3/lv3              | Standard | 2    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 9:12:26 AM  |
| 3   | std4/lv4              | Standard | 3    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 9:25:24 AM  |
| 4   | std5/lv5              | Standard | 4    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 9:38:21 AM  |
| 5   | std6/lv6              | Standard | 5    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 9:51:19 AM  |
| 6   | std7/lv7              | Standard | 6    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 10:04:17 AM |
| 7   | std1/lv1              | Standard | 7    | 200.0     | epa300  | epa300 | Finished | 4/26/2010 10:17:14 AM |
| 8   | CCV AN11-20-J         | Unknown  | 8    | 200.0     | epa300  | epa300 | Finished | 5/24/2010 9:13:14 AM  |
| 9   | CCB                   | Unknown  | 9    | 200.0     | epa300  | epa300 | Finished | 5/24/2010 9:25:12 AM  |
| 10  | NO3 AN1-33-E          | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 9:37:10 AM  |
| 11  | MB                    | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 9:49:07 AM  |
| 12  | CLSO4 ERA# 0107-10-02 | Unknown  | 12   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 10:01:05 AM |
| 13  | F AN1-33-D            | Unknown  | 13   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 10:13:03 AM |
| 14  | Br AN1-33-L           | Unknown  | 14   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 10:25:00 AM |
| 15  | SPK AN11-10-O         | Unknown  | 16   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 10:36:58 AM |
| 16  | CCV2                  | Unknown  | 15   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 10:48:56 AM |
| 17  | CCB2                  | Unknown  | 16   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 11:00:54 AM |
| 18  | NO2 AN11-27-EE        | Unknown  | 17   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 11:39:53 AM |
| 19  | K1004470-004          | Unknown  | 18   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 11:51:51 AM |
| 20  | K1004470-008          | Unknown  | 19   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 12:03:48 PM |
| 21  | K1004575-001          | Unknown  | 20   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 12:15:46 PM |
| 22  | K1004575-002          | Unknown  | 21   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 12:27:44 PM |
| 23  | K1004575-003          | Unknown  | 22   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 12:39:42 PM |
| 24  | K1004575-004          | Unknown  | 23   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 12:51:39 PM |
| 25  | K1004776-003          | Unknown  | 24   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 1:03:37 PM  |
| 26  | K1004839-001          | Unknown  | 25   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 1:15:35 PM  |
| 27  | RB                    | Unknown  | 26   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 1:27:32 PM  |
| 28  | CCV3                  | Unknown  | 27   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 1:39:29 PM  |
| 29  | CCB3                  | Unknown  | 28   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 1:51:27 PM  |
| 30  | K1004470-008          | Unknown  | 29   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 2:03:25 PM  |
| 31  | K1005179-001          | Unknown  | 30   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 2:15:23 PM  |
| 32  | K1005179-002          | Unknown  | 31   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 2:27:20 PM  |
| 33  | K1005179-003          | Unknown  | 32   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 2:39:18 PM  |
| 34  | K1005179-004          | Unknown  | 33   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 2:51:16 PM  |
| 35  | K1005179-004          | Unknown  | 34   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 3:03:13 PM  |
| 36  | K1005182-001          | Unknown  | 35   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 3:15:11 PM  |
| 37  | K1005182-001          | Unknown  | 36   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 3:27:09 PM  |
| 38  | K1005182-002          | Unknown  | 37   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 3:39:06 PM  |
| 39  | RB                    | Unknown  | 38   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 3:51:04 PM  |
| 40  | CCV4                  | Unknown  | 39   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 4:03:02 PM  |
| 41  | CCB4                  | Unknown  | 40   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 4:14:59 PM  |
| 42  | K1005179-001          | Unknown  | 41   | 200.0     | epa300  | epa300 | Finished | 5/24/2010 4:26:57 PM  |

Sequence: IC03052410  
Operator: mblack

Page 2 of 4  
Printed: 5/25/2010 9:15:53 AM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 66

























Created: 5/24/2010 9:08:20 AM by ACQWET10  
Last Update: 5/24/2010 4:50:27 PM by ACQWET10

| No. | Name  | Dil. Factor | Comment |
|-----|---|-------------|---------|
| 1   |  std2/lvl2             | 1.0000      |         |
| 2   |  std3/lvl3             | 1.0000      |         |
| 3   |  std4/lvl4             | 1.0000      |         |
| 4   |  std5/lvl5             | 1.0000      |         |
| 5   |  std6/lvl6             | 1.0000      |         |
| 6   |  std7/lvl7             | 1.0000      |         |
| 7   |  std1/lvl1             | 1.0000      |         |
| 8   |  CCV AN11-20-J         | 1.0000      | CCV1    |
| 9   |  CCB                   | 1.0000      | CCB1    |
| 10  |  NO3 AN1-33-E          | 20.0000     | NO3     |
| 11  |  MB                    | 1.0000      | MB      |
| 12  |  CLSO4 ERA# 0107-10-02 | 1.0000      | CLSO4   |
| 13  |  F AN1-33-D            | 2.0000      | F       |
| 14  |  Br AN1-33-L           | 1.0000      | Br      |
| 15  |  SPK AN11-10-O         | 1.0000      | SPK     |
| 16  |  CCV2                  | 1.0000      | CCV2    |
| 17  |  CCB2                 | 1.0000      | CCB2    |
| 18  |  NO2 AN11-27-EE      | 25.0000     | NO2     |
| 19  |  K1004470-004        | 20.0000     |         |
| 20  |  K1004470-008        | 5.0000      |         |
| 21  |  K1004575-001        | 5.0000      |         |
| 22  |  K1004575-002        | 2.0000      |         |
| 23  |  K1004575-003        | 2.0000      |         |
| 24  |  K1004575-004        | 2.0000      |         |
| 25  |  K1004776-003        | 2.0000      |         |
| 26  |  K1004839-001        | 2.0000      | F       |
| 27  |  RB                  | 1.0000      |         |
| 28  |  CCV3                | 1.0000      | CCV3    |
| 29  |  CCB3                | 1.0000      | CCB3    |
| 30  |  K1004470-008        | 2.0000      |         |
| 31  |  K1005179-001        | 2.0000      |         |
| 32  |  K1005179-002        | 2.0000      |         |
| 33  |  K1005179-003        | 2.0000      |         |
| 34  |  K1005179-004        | 2.0000      |         |
| 35  |  K1005179-004        | 20.0000     |         |
| 36  |  K1005182-001        | 20.0000     |         |
| 37  |  K1005182-001        | 2.0000      |         |
| 38  |  K1005182-002        | 10.0000     |         |
| 39  |  RB                  | 1.0000      |         |
| 40  |  CCV4                | 1.0000      | CCV4    |
| 41  |  CCB4                | 1.0000      | CCB4    |
| 42  |  K1005179-001        | 2.0000      | 5179-1D |

Sequence: IC03052410  
Operator: mblack

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 66

























Created: 5/24/2010 9:08:20 AM by ACQWET10  
Last Update: 5/24/2010 4:50:27 PM by ACQWET10

| No. | Name   | Type    | Pos. | Inj. Vol. | Program      | Method | Status   | Inj. Date/Time       |
|-----|--|---------|------|-----------|--------------|--------|----------|----------------------|
| 43  |  K1005179-001   | Unknown | 42   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 4:38:55 PM |
| 44  |  K1005179-001   | Unknown | 43   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 4:50:54 PM |
| 45  |  K1004575-002   | Unknown | 44   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 5:02:52 PM |
| 46  |  K1004575-003   | Unknown | 45   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 5:14:50 PM |
| 47  |  K1005179-002   | Unknown | 46   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 5:26:48 PM |
| 48  |  K1004890-001   | Unknown | 47   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 5:38:47 PM |
| 49  |  K1004890-001   | Unknown | 48   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 5:50:46 PM |
| 50  |  K1004890-002   | Unknown | 49   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 6:02:43 PM |
| 51  |  RB             | Unknown | 50   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 6:14:41 PM |
| 52  |  CCV5           | Unknown | 51   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 6:26:39 PM |
| 53  |  CCB5           | Unknown | 52   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 6:38:36 PM |
| 54  |  K1005182-002   | Unknown | 53   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 6:50:35 PM |
| 55  |  K1005182-003   | Unknown | 54   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 7:02:33 PM |
| 56  |  K1005182-003   | Unknown | 55   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 7:14:31 PM |
| 57  |  K1004890-002   | Unknown | 56   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 7:26:29 PM |
| 58  |  K1004890-003   | Unknown | 57   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 7:38:26 PM |
| 59  |  K1004890-003  | Unknown | 58   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 7:50:24 PM |
| 60  |  K1004890-004 | Unknown | 59   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 8:02:21 PM |
| 61  |  K1004890-004 | Unknown | 60   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 8:14:19 PM |
| 62  |  K1004890-005 | Unknown | 61   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 8:26:16 PM |
| 63  |  RB           | Unknown | 62   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 8:38:14 PM |
| 64  |  CCV6         | Unknown | 63   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 8:50:12 PM |
| 65  |  CCB6         | Unknown | 64   | 200.0     | epa300       | epa300 | Finished | 5/24/2010 9:02:10 PM |
| 66  |  SHUTDOWN     | Unknown | 65   | 200.0     | shutdown 120 | epa300 | Finished | 5/24/2010 9:14:08 PM |

Sequence: IC03052410  
Operator: mblack

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 66

Created: 5/24/2010 9:08:20 AM by ACQWET10  
Last Update: 5/24/2010 4:50:27 PM by ACQWET10

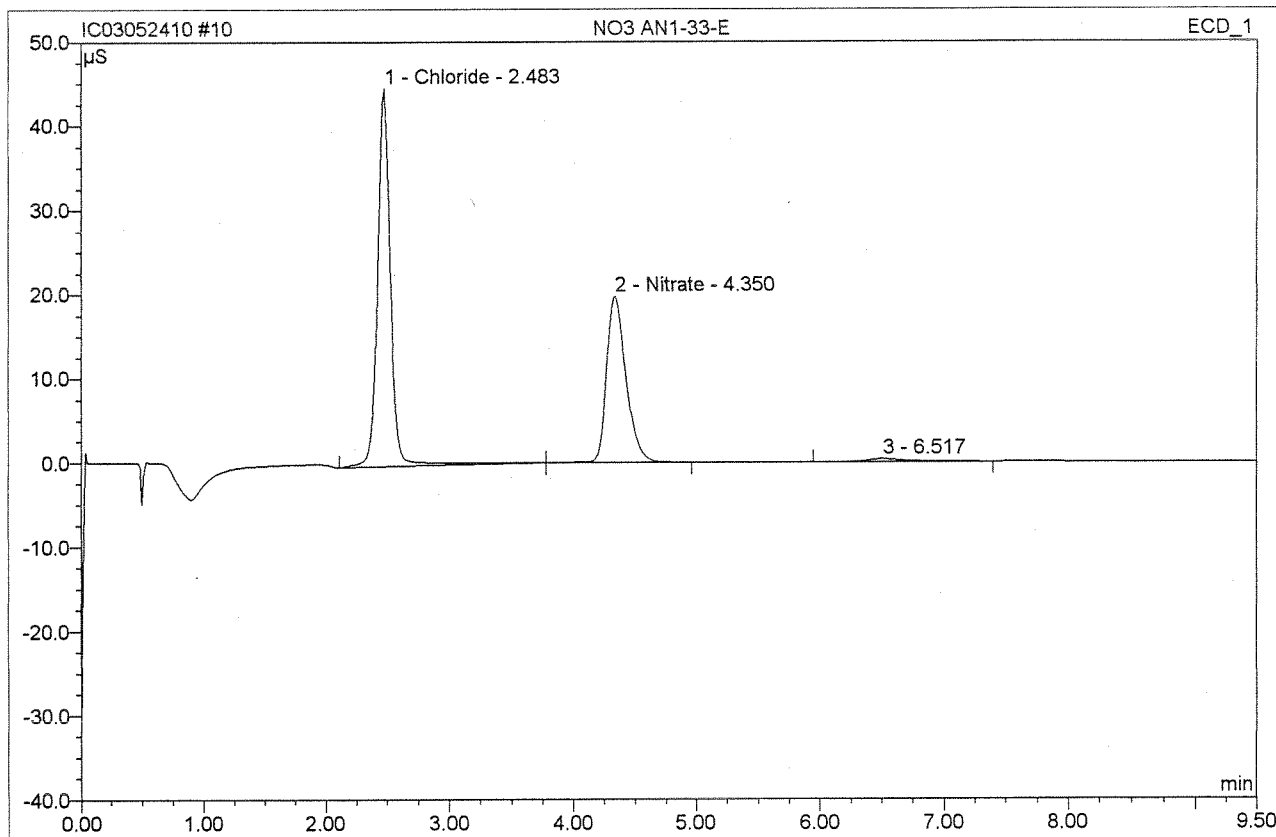
| No. | Name   | Dil. Factor | Comment   |
|-----|--|-------------|-----------|
| 43  |  K1005179-001   | 2.0000      | 5179-1MS  |
| 44  |  K1005179-001   | 2.0000      | 5179-1MSD |
| 45  |  K1004575-002   | 50.0000     |           |
| 46  |  K1004575-003   | 50.0000     |           |
| 47  |  K1005179-002   | 20.0000     |           |
| 48  |  K1004890-001   | 1000.0000   |           |
| 49  |  K1004890-001   | 5.0000      |           |
| 50  |  K1004890-002   | 2.0000      |           |
| 51  |  RB             | 1.0000      |           |
| 52  |  CCV5           | 1.0000      | CCV5      |
| 53  |  CCB5           | 1.0000      | CCB5      |
| 54  |  K1005182-002   | 2.0000      |           |
| 55  |  K1005182-003   | 5.0000      |           |
| 56  |  K1005182-003   | 2.0000      |           |
| 57  |  K1004890-002   | 500.0000    |           |
| 58  |  K1004890-003   | 20.0000     |           |
| 59  |  K1004890-003  | 2.0000      |           |
| 60  |  K1004890-004 | 50.0000     |           |
| 61  |  K1004890-004 | 5.0000      |           |
| 62  |  K1004890-005 | 2.0000      |           |
| 63  |  RB           | 1.0000      |           |
| 64  |  CCV6         | 1.0000      | CCV6      |
| 65  |  CCB6         | 1.0000      | CCB6      |
| 66  |  SHUTDOWN     | 1.0000      |           |



# 10 NO3 AN1-33-E

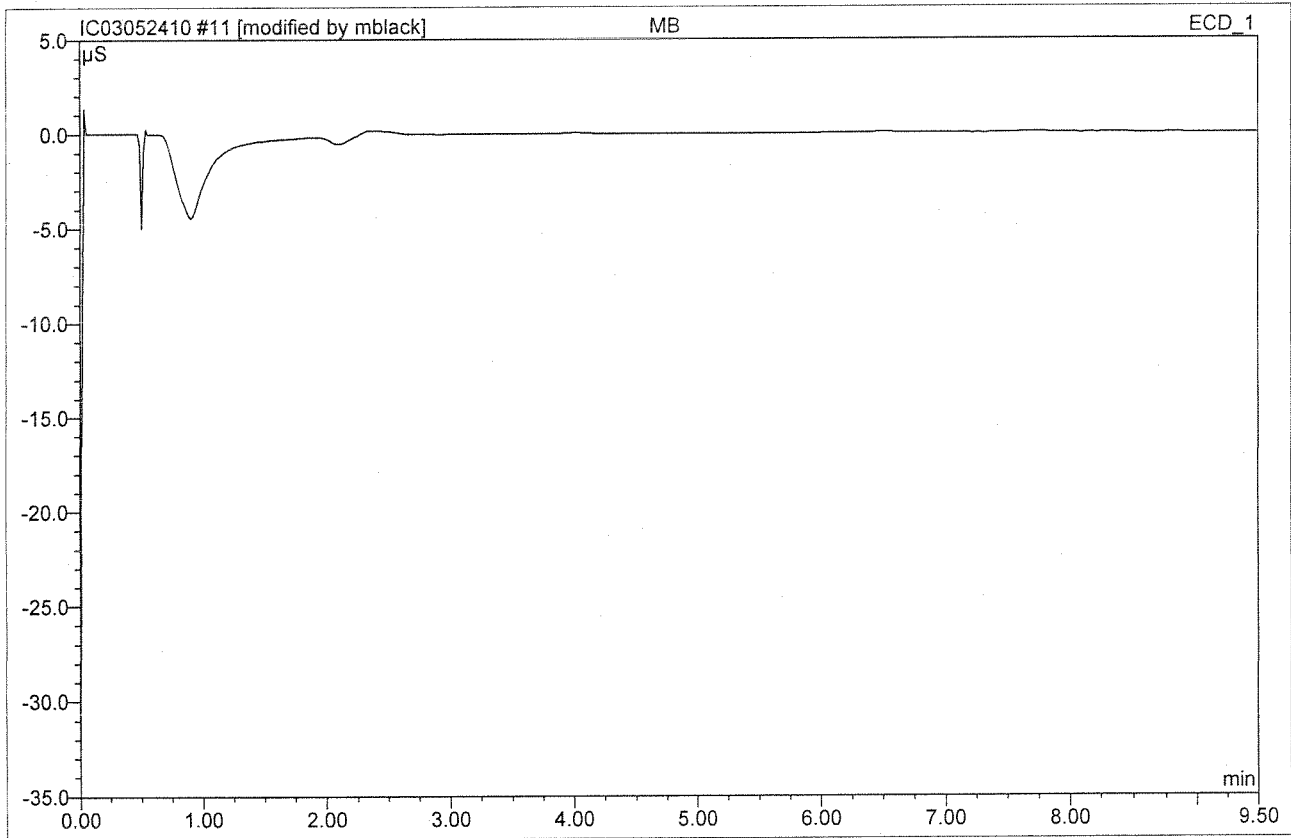
## NO3

|                  |                |                   |         |
|------------------|----------------|-------------------|---------|
| Sample Name:     | NO3 AN1-33-E   | Injection Volume: | 200.0   |
| Vial Number:     | 11             | Channel:          | ECD_1   |
| Sample Type:     | unknown        | Wavelength:       | n.a.    |
| Control Program: | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300         | Dilution Factor:  | 20.0000 |
| Recording Time:  | 5/24/2010 9:37 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000  |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount    | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------|------|
| 1             | 2.48            | Chloride  | 44.869       | 5.313          | 58.66         | 68.140    | BMB  |
| 2             | 4.35            | Nitrate   | 19.676       | 3.606          | 39.81         | 19.579939 | bMB  |
| 3             | 6.52            | n.a.      | 0.352        | 0.138          | 1.53          | n.a.      | BMB  |
| <b>Total:</b> |                 |           | 64.897       | 9.058          | 100.00        | 87.720    |      |

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 9:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



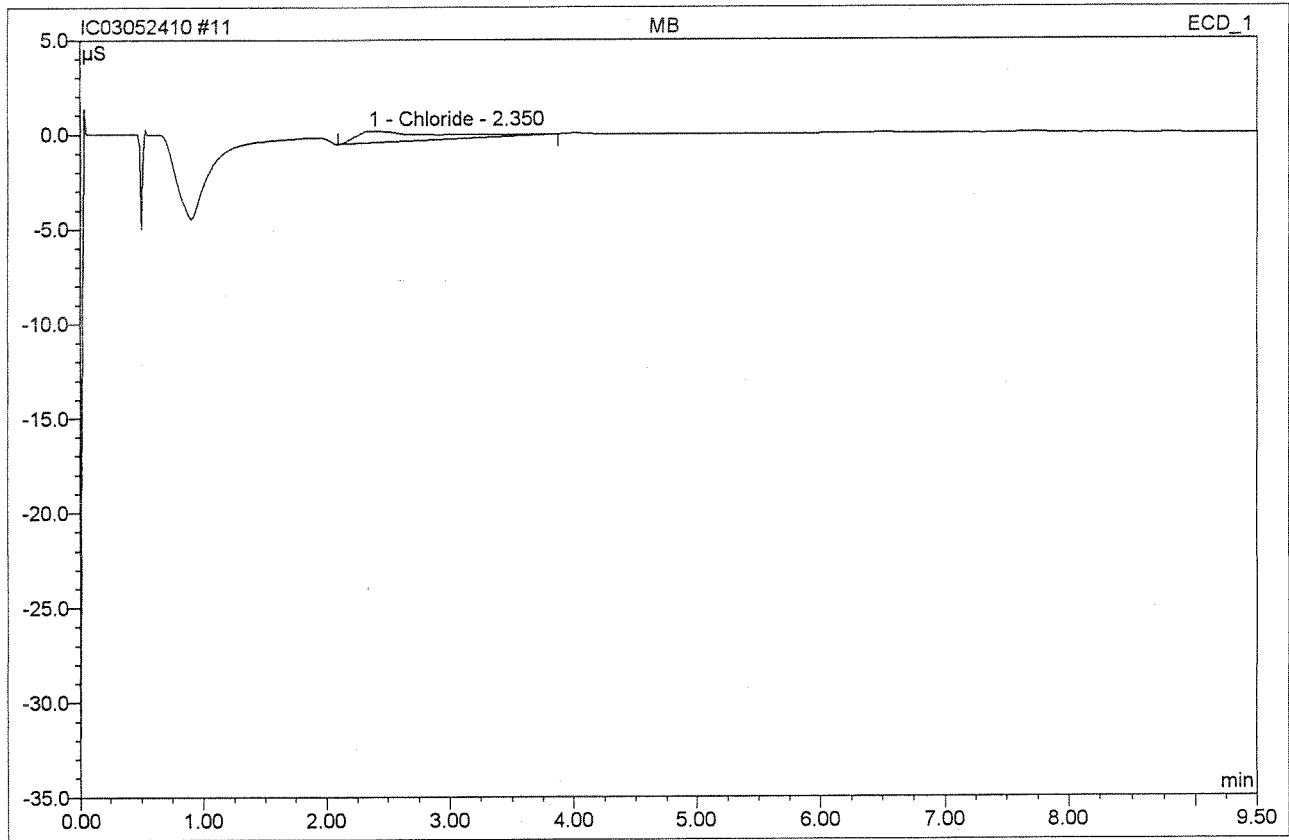
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| <b>Total:</b> |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

After initials MB

MAY 24 2010

5/25/10

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 9:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.35            | Chloride  | 0.621        | 0.446          | 100.00        | 0.286  | BMB  |
| <b>Total:</b> |                 |           | 0.621        | 0.446          | 100.00        | 0.286  |      |

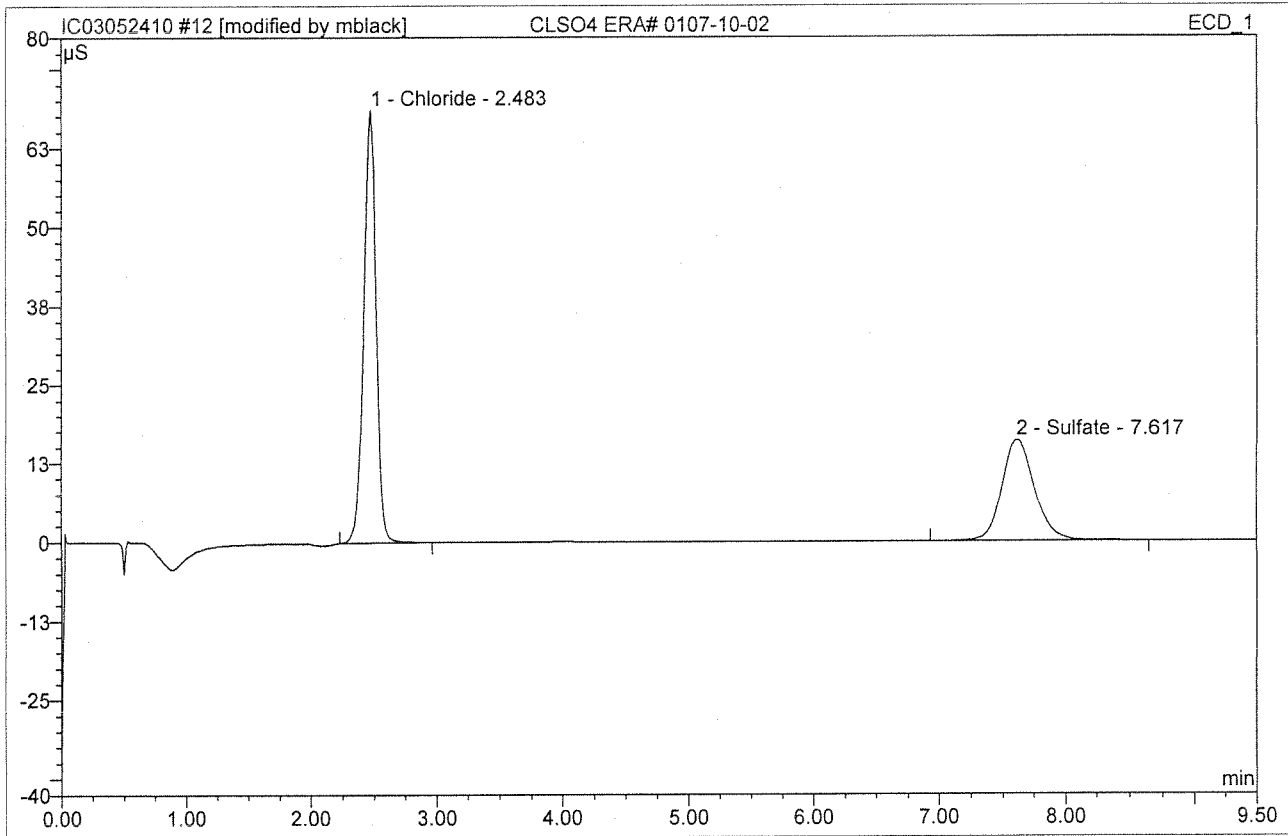
Before

MAY 24 2010

**12 CLSO4 ERA# 0107-10-02**

**CLSO4**

|                  |                       |                   |        |
|------------------|-----------------------|-------------------|--------|
| Sample Name:     | CLSO4 ERA# 0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                    | Channel:          | ECD_1  |
| Sample Type:     | unknown               | Wavelength:       | n.a.   |
| Control Program: | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:01       | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50                  | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount               | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|----------------------|------|
| 1             | 2.48             | Chloride  | 68.619       | 7.702          | 61.76          | 4.939 <sup>99%</sup> | BMB* |
| 2             | 7.62             | Sulfate   | 16.029       | 4.769          | 38.24          | 4.846 <sup>97%</sup> | BMB  |
| <b>Total:</b> |                  |           | 84.648       | 12.471         | 100.00         | 9.785                |      |

After Initials

*MB*

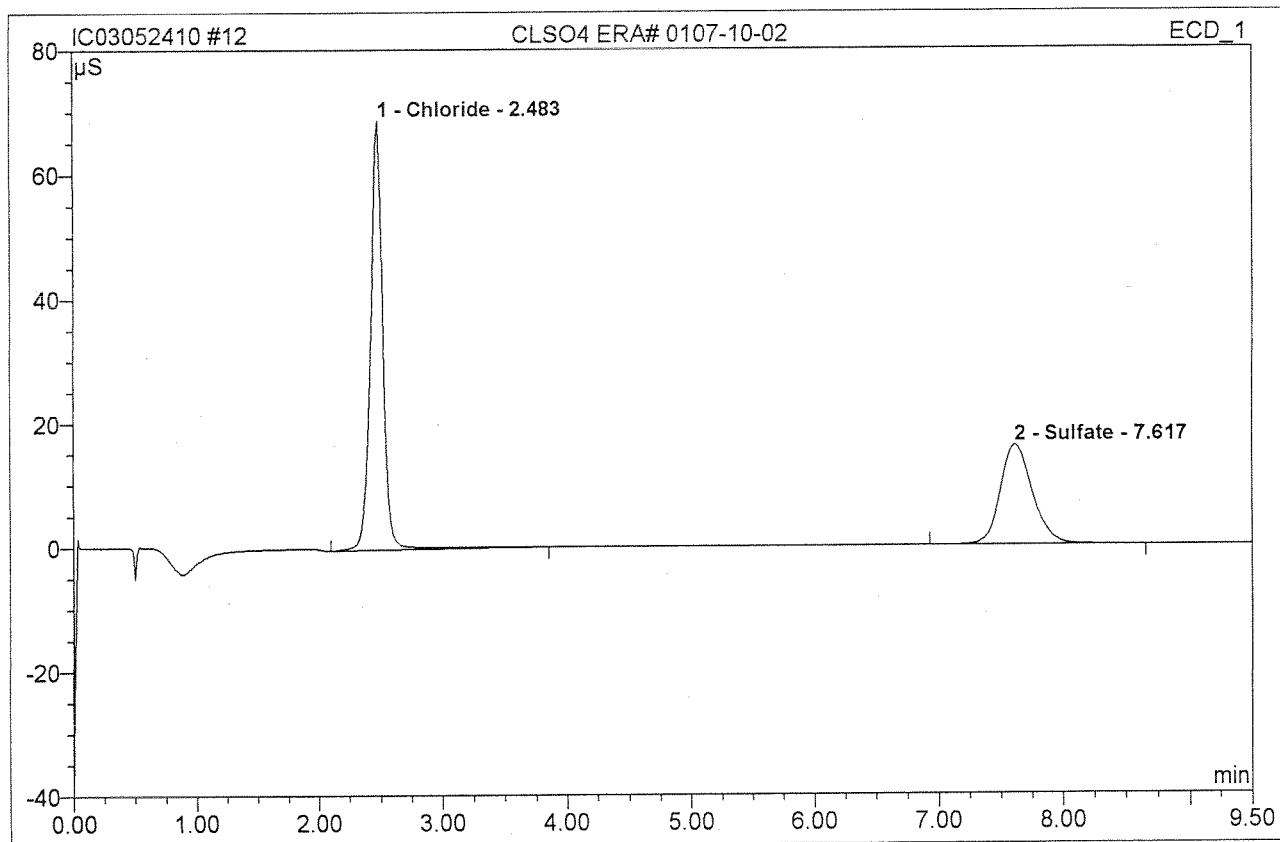
MAY 24 2010

*MB 5/25/10*

**12 CLSO4 ERA# 0107-10-02**

**CLSO4**

|                  |                       |                   |        |
|------------------|-----------------------|-------------------|--------|
| Sample Name:     | CLSO4 ERA# 0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                    | Channel:          | ECD_1  |
| Sample Type:     | unknown               | Wavelength:       | n.a.   |
| Control Program: | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:01       | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50                  | Sample Amount:    | 1.0000 |



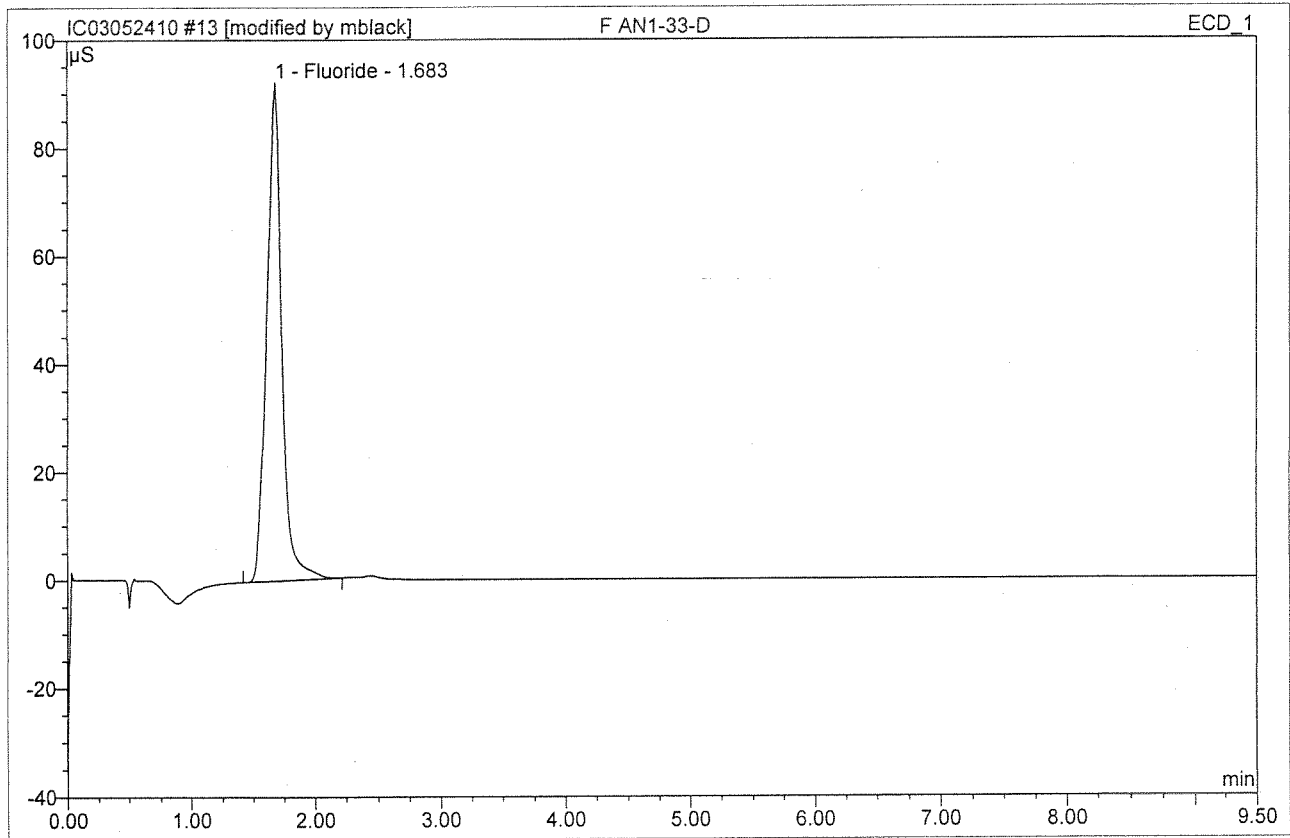
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.48             | Chloride  | 68.948       | 8.064          | 62.84          | 5.171  | BMB  |
| 2             | 7.62             | Sulfate   | 16.029       | 4.769          | 37.16          | 4.846  | BMB  |
| <b>Total:</b> |                  |           | 84.977       | 12.832         | 100.00         | 10.016 |      |

Before

MAY 24 2010



|                      |                 |                   |        |
|----------------------|-----------------|-------------------|--------|
| <b>13 F AN1-33-D</b> |                 |                   |        |
| <b>F</b>             |                 |                   |        |
| Sample Name:         | F AN1-33-D      | Injection Volume: | 200.0  |
| Vial Number:         | 13              | Channel:          | ECD_1  |
| Sample Type:         | unknown         | Wavelength:       | n.a.   |
| Control Program:     | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:     | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:      | 5/24/2010 10:13 | Sample Weight:    | 1.0000 |
| Run Time (min):      | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount     | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|------------|------|
| 1             | 1.68            | Fluoride  | 92.326       | 13.008         | 100.00        | 13.596/012 | BMB* |
| <b>Total:</b> |                 |           | 92.326       | 13.008         | 100.00        | 13.596     |      |

After initials MB

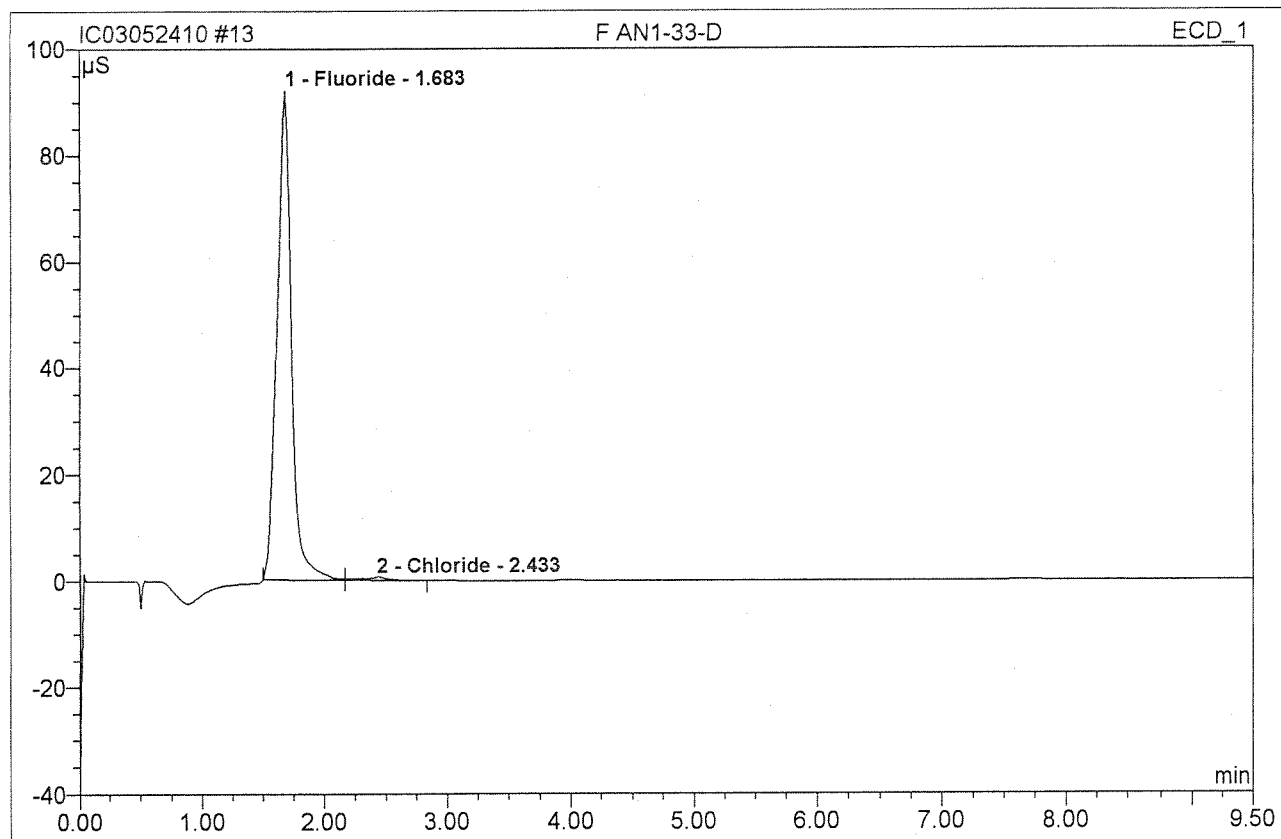
MAY 24 2010

*Handwritten:* 5/25/10

### 13 F AN1-33-D

F

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | F AN1-33-D      | Injection Volume: | 200.0  |
| Vial Number:     | 13              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/24/2010 10:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

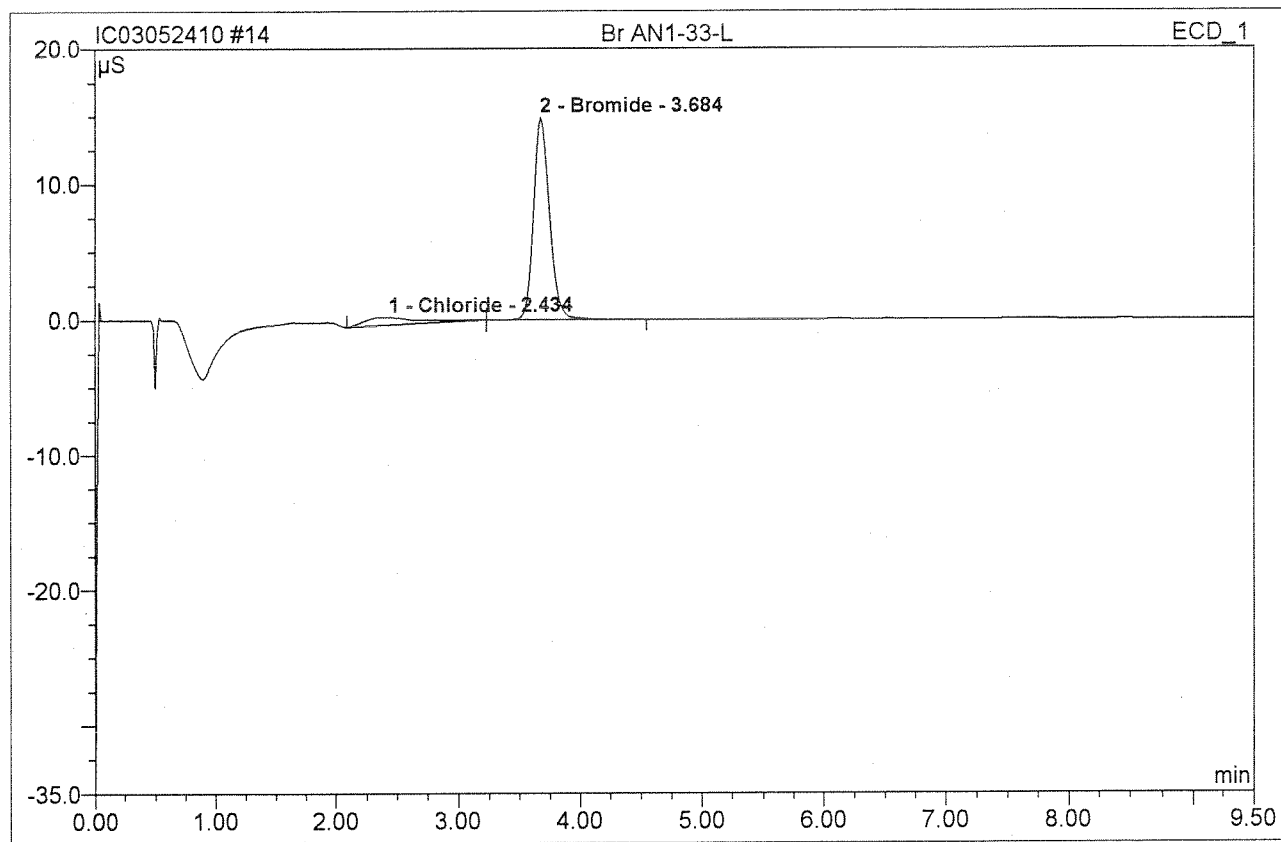


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.68             | Fluoride  | 91.858       | 12.816         | 98.89          | 13.396 | BM   |
| 2             | 2.43             | Chloride  | 0.621        | 0.144          | 1.11           | 0.185  | MB   |
| <b>Total:</b> |                  |           | 92.479       | 12.960         | 100.00         | 13.581 |      |

Before

MAY 24 2010

|                       |                 |                   |        |
|-----------------------|-----------------|-------------------|--------|
| <b>14 Br AN1-33-L</b> |                 |                   |        |
| <b>Br</b>             |                 |                   |        |
| Sample Name:          | Br AN1-33-L     | Injection Volume: | 200.0  |
| Vial Number:          | 14              | Channel:          | ECD_1  |
| Sample Type:          | unknown         | Wavelength:       | n.a.   |
| Control Program:      | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:      | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:       | 5/24/2010 10:25 | Sample Weight:    | 1.0000 |
| Run Time (min):       | 9.50            | Sample Amount:    | 1.0000 |

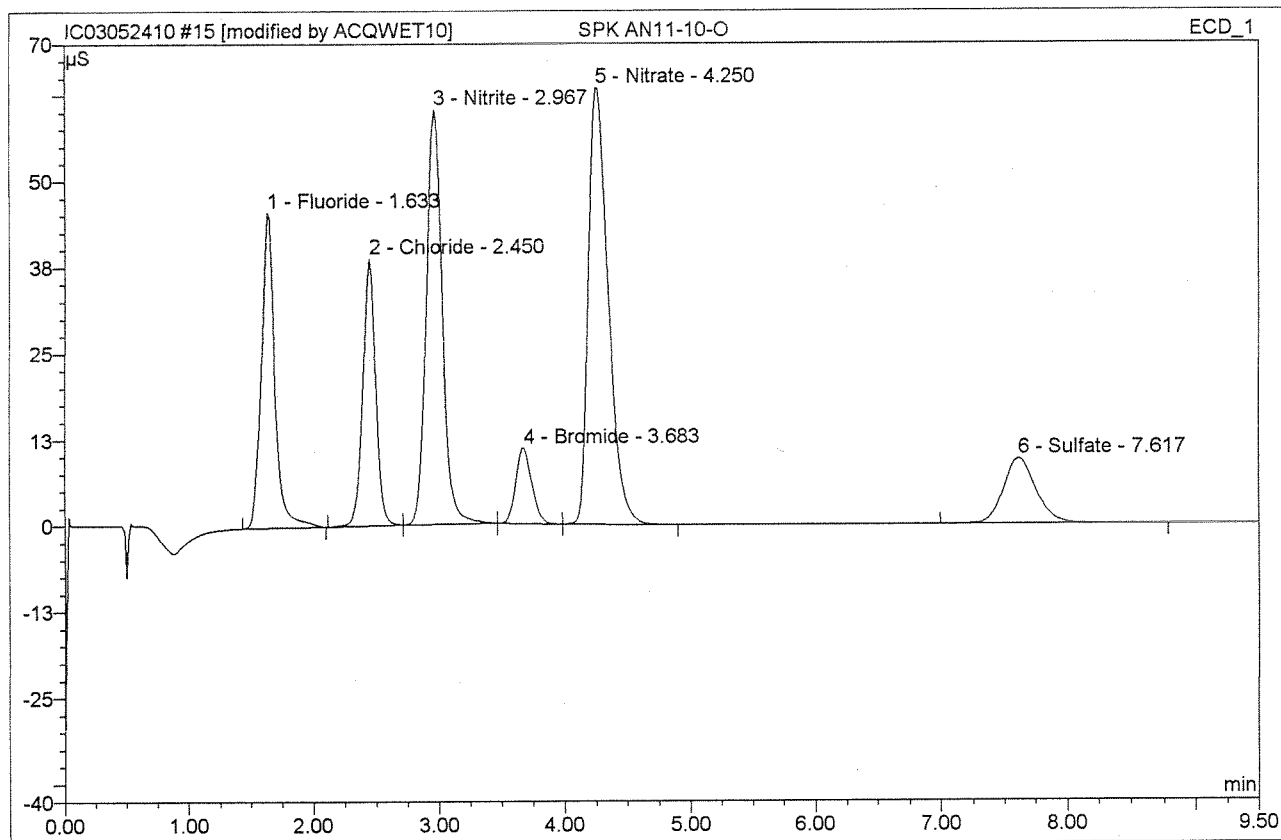


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.43             | Chloride  | 0.566        | 0.297          | 11.45          | 0.190  | BMB  |
| 2             | 3.68             | Bromide   | 14.938       | 2.296          | 88.55          | 4.284  | bMB  |
| <b>Total:</b> |                  |           | 15.505       | 2.592          | 100.00         | 4.475  |      |

# 15 SPK AN11-10-O

## SPK

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | SPK AN11-10-O   | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:36 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.63         | Fluoride  | 45.733    | 5.749       | 16.36      | 3.005  | BMB* |
| 2             | 2.45         | Chloride  | 38.732    | 4.480       | 12.75      | 2.873  | BMB  |
| 3             | 2.97         | Nitrite   | 60.115    | 8.870       | 25.24      | 3.072  | bMb  |
| 4             | 3.68         | Bromide   | 10.960    | 1.640       | 4.67       | 3.061  | bMb  |
| 5             | 4.25         | Nitrate   | 63.324    | 11.539      | 32.84      | 3.132  | bMB  |
| 6             | 7.62         | Sulfate   | 9.494     | 2.861       | 8.14       | 2.907  | BMB  |
| <b>Total:</b> |              |           | 228.358   | 35.140      | 100.00     | 18.050 |      |

TV=3.00

After Initials

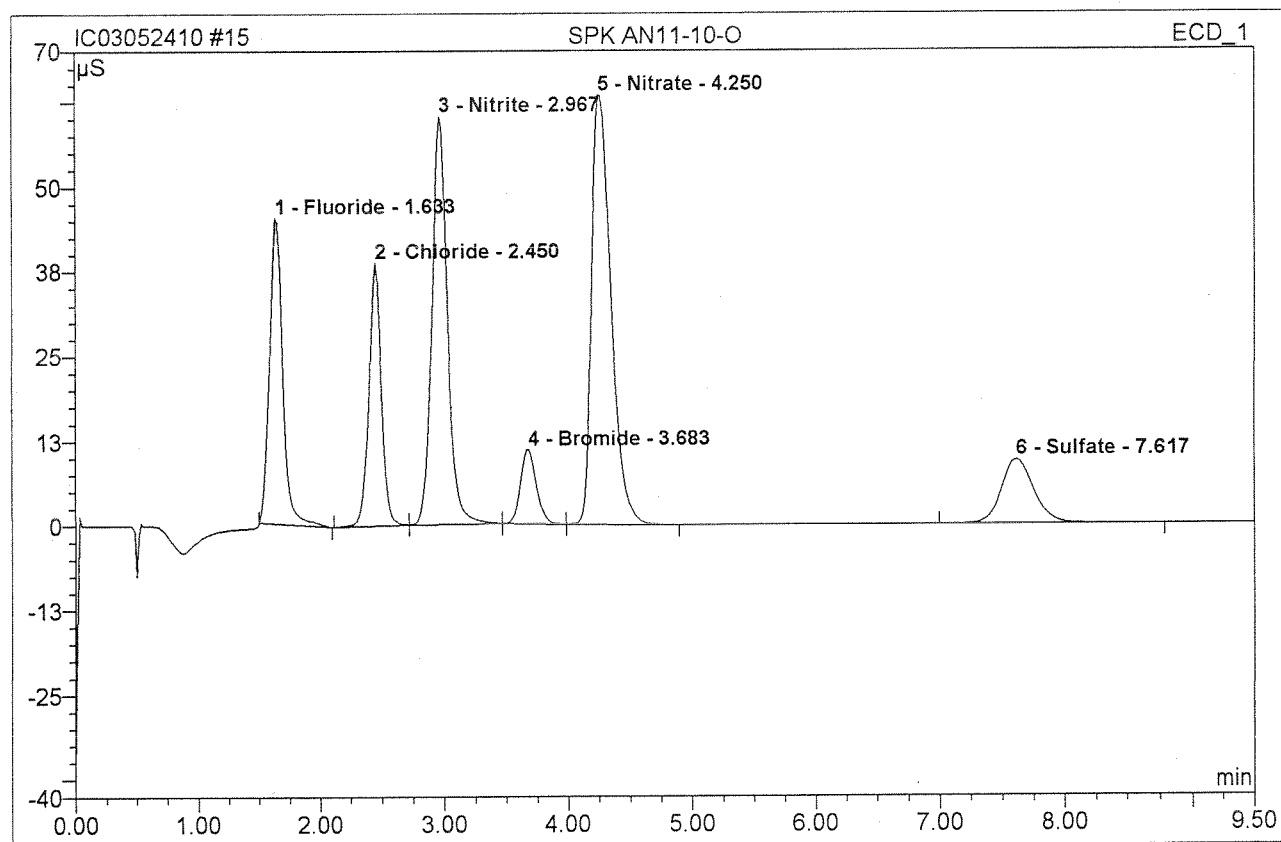
*MB*

MAY 24 2010

*5/29/10*

**15 SPK AN11-10-O****SPK**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | SPK AN11-10-O   | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:36 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.63            | Fluoride  | 45.102       | 5.493          | 15.75         | 2.871  | BMB  |
| 2             | 2.45            | Chloride  | 38.732       | 4.480          | 12.84         | 2.873  | BMb  |
| 3             | 2.97            | Nitrite   | 60.115       | 8.870          | 25.43         | 3.072  | bMb  |
| 4             | 3.68            | Bromide   | 10.960       | 1.640          | 4.70          | 3.061  | bMb  |
| 5             | 4.25            | Nitrate   | 63.324       | 11.539         | 33.08         | 3.132  | bMB  |
| 6             | 7.62            | Sulfate   | 9.494        | 2.861          | 8.20          | 2.907  | BMB  |
| <b>Total:</b> |                 |           | 227.727      | 34.884         | 100.00        | 17.916 |      |

Before

MAY 24 2010

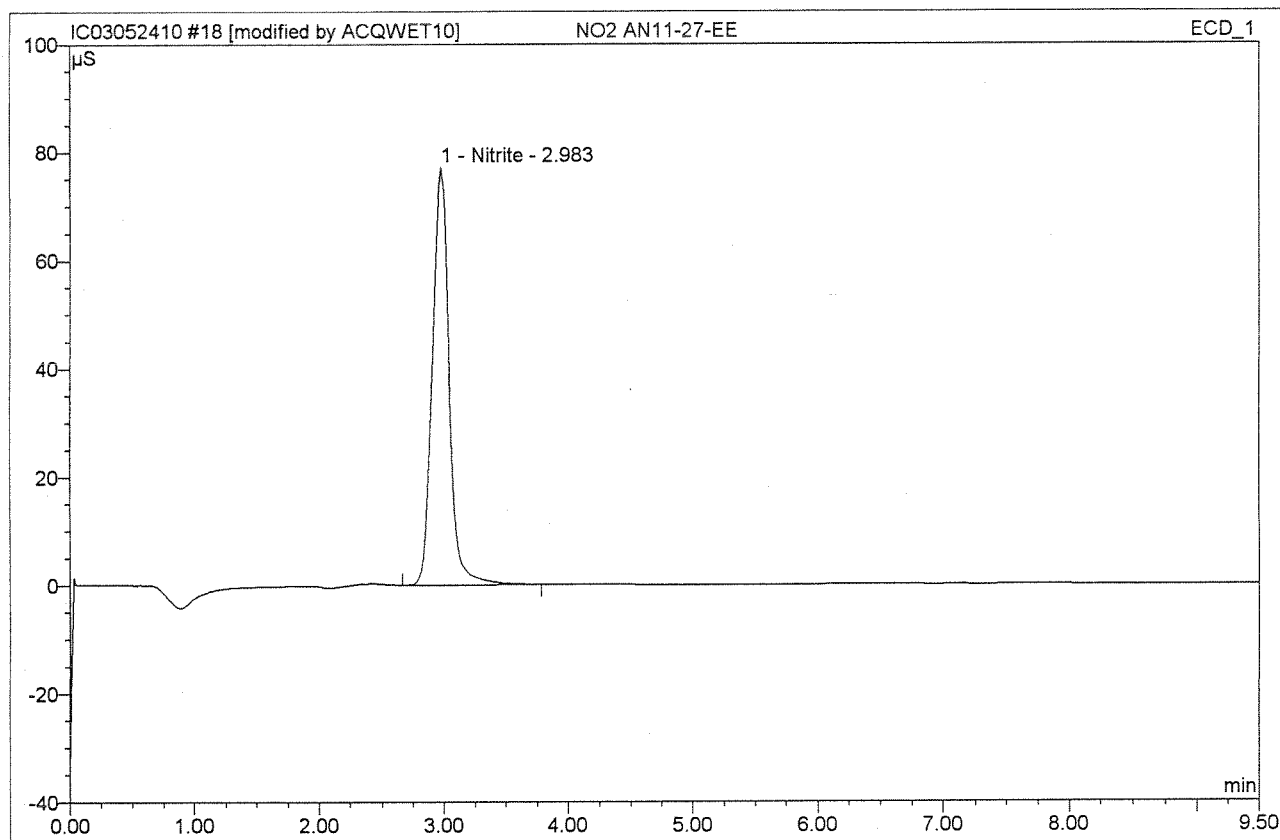
Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956



# 18 NO2 AN11-27-EE

## NO2

|                  |                 |                   |         |
|------------------|-----------------|-------------------|---------|
| Sample Name:     | NO2 AN11-27-EE  | Injection Volume: | 200.0   |
| Vial Number:     | 17              | Channel:          | ECD_1   |
| Sample Type:     | unknown         | Wavelength:       | n.a.    |
| Control Program: | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300          | Dilution Factor:  | 25.0000 |
| Recording Time:  | 5/24/2010 11:39 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000  |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount  | Type      |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|-----------|
| 1             | 2.98             | Nitrite   | 77.147       | 11.997         | 100.00         | 103.875 | 104% BMB* |
| <b>Total:</b> |                  |           | 77.147       | 11.997         | 100.00         | 103.875 |           |

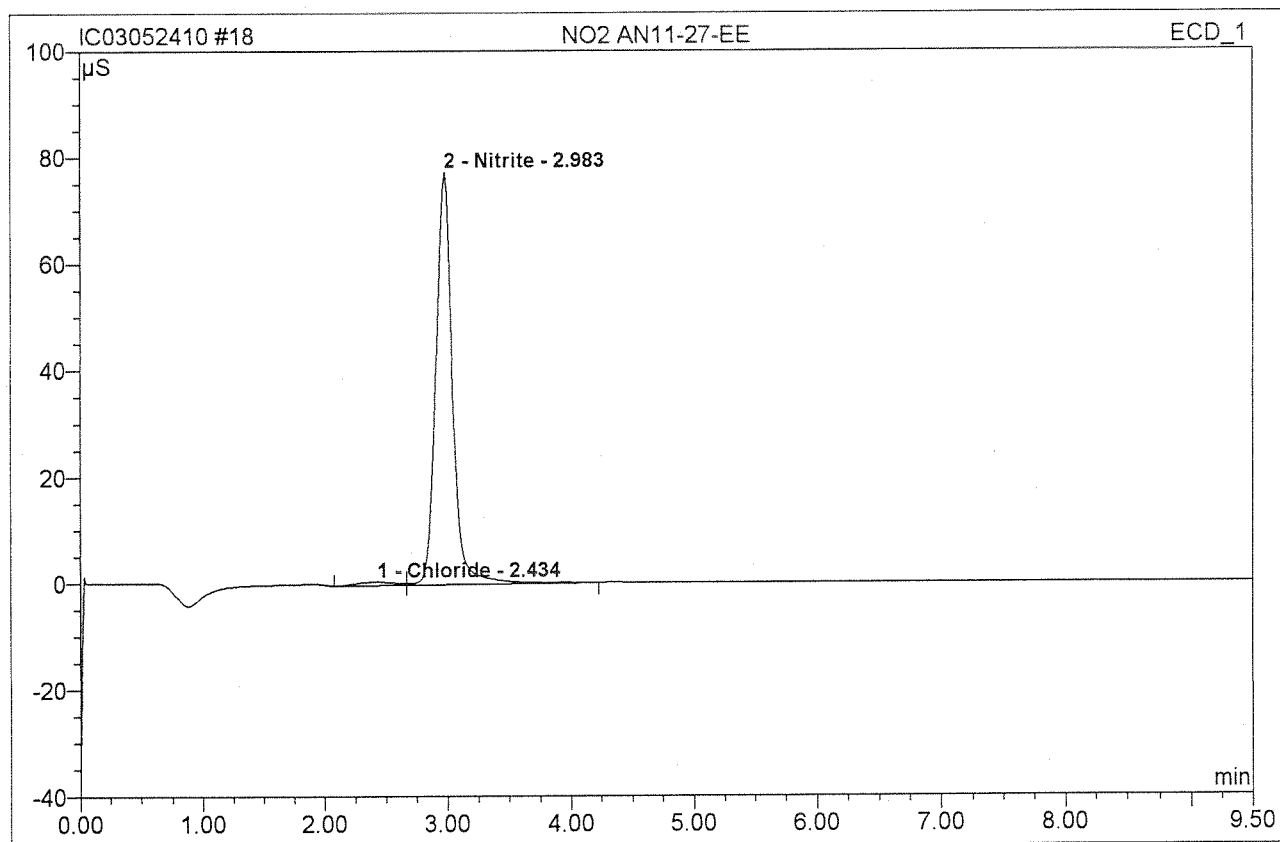
After MS 5/24/10  
Baseline.

5/25/10

# 18 NO2 AN11-27-EE

## NO2

|                  |                 |                   |         |
|------------------|-----------------|-------------------|---------|
| Sample Name:     | NO2 AN11-27-EE  | Injection Volume: | 200.0   |
| Vial Number:     | 17              | Channel:          | ECD_1   |
| Sample Type:     | unknown         | Wavelength:       | n.a.    |
| Control Program: | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300          | Dilution Factor:  | 25.0000 |
| Recording Time:  | 5/24/2010 11:39 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000  |

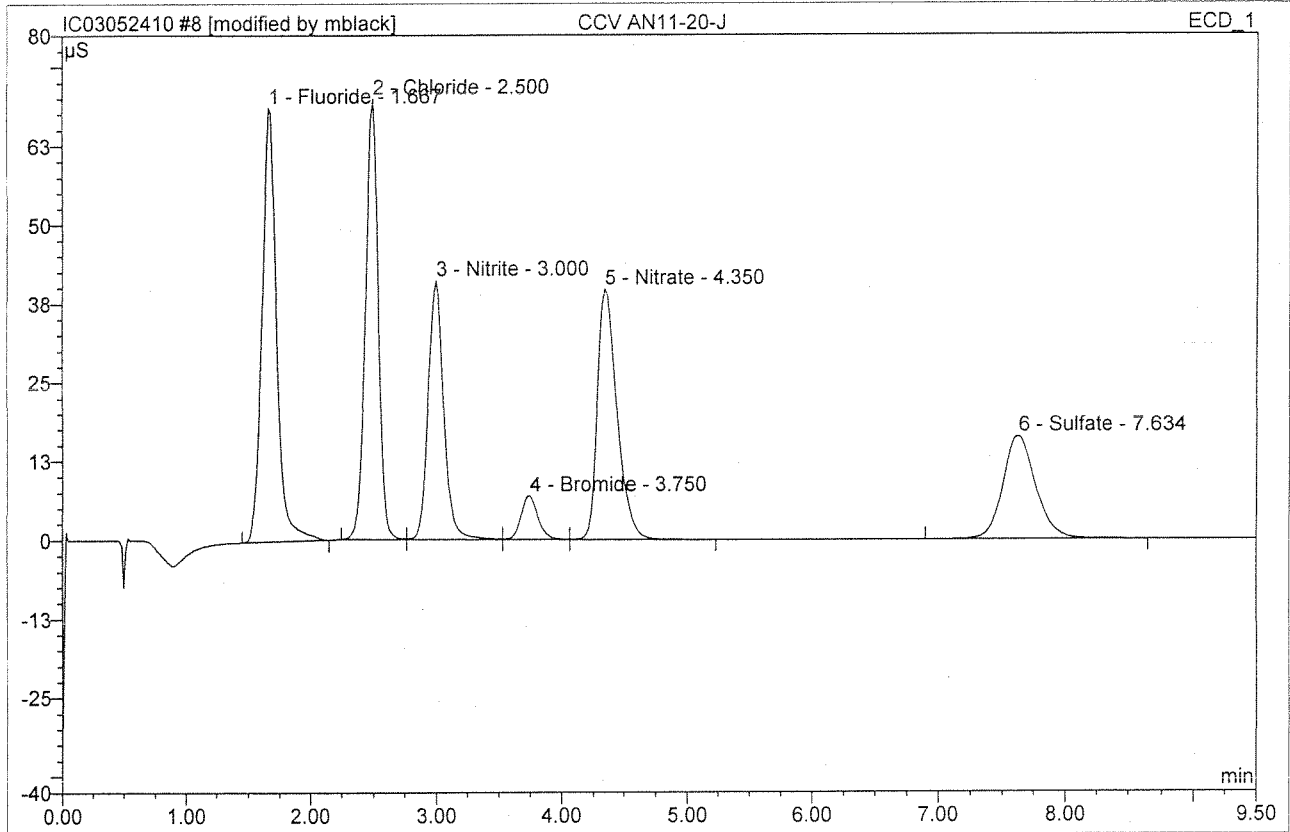


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.43             | Chloride  | 0.760        | 0.273          | 2.17           | 4.383   | BM   |
| 2             | 2.98             | Nitrite   | 77.467       | 12.337         | 97.83          | 106.820 | MB   |
| <b>Total:</b> |                  |           | 78.228       | 12.610         | 100.00         | 111.203 |      |

Before

MAY 24 2010

|                        |                |                   |        |
|------------------------|----------------|-------------------|--------|
| <b>8 CCV AN11-20-J</b> |                |                   |        |
| <b>CCV1</b>            |                |                   |        |
| Sample Name:           | CCV AN11-20-J  | Injection Volume: | 200.0  |
| Vial Number:           | 8              | Channel:          | ECD_1  |
| Sample Type:           | unknown        | Wavelength:       | n.a.   |
| Control Program:       | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:        | 5/24/2010 9:13 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount               | Type |
|---------------|--------------|-----------|-----------|-------------|------------|----------------------|------|
| 1             | 1.67         | Fluoride  | 68.785    | 9.250       | 25.42      | 4.834 <sup>972</sup> | BMB* |
| 2             | 2.50         | Chloride  | 69.746    | 8.084       | 22.21      | 5.183 <sup>042</sup> | BM*  |
| 3             | 3.00         | Nitrite   | 41.009    | 5.865       | 16.12      | 2.031 <sup>027</sup> | M*   |
| 4             | 3.75         | Bromide   | 6.847     | 1.061       | 2.92       | 1.980 <sup>992</sup> | M*   |
| 5             | 4.35         | Nitrate   | 39.636    | 7.252       | 19.93      | 1.969 <sup>992</sup> | MB*  |
| 6             | 7.63         | Sulfate   | 16.332    | 4.877       | 13.40      | 4.956 <sup>992</sup> | BMB  |
| <b>Total:</b> |              |           | 242.354   | 36.390      | 100.00     | 20.954               |      |

After Initial

*MS*

MAY 24 2010

*BA 5/25/10*

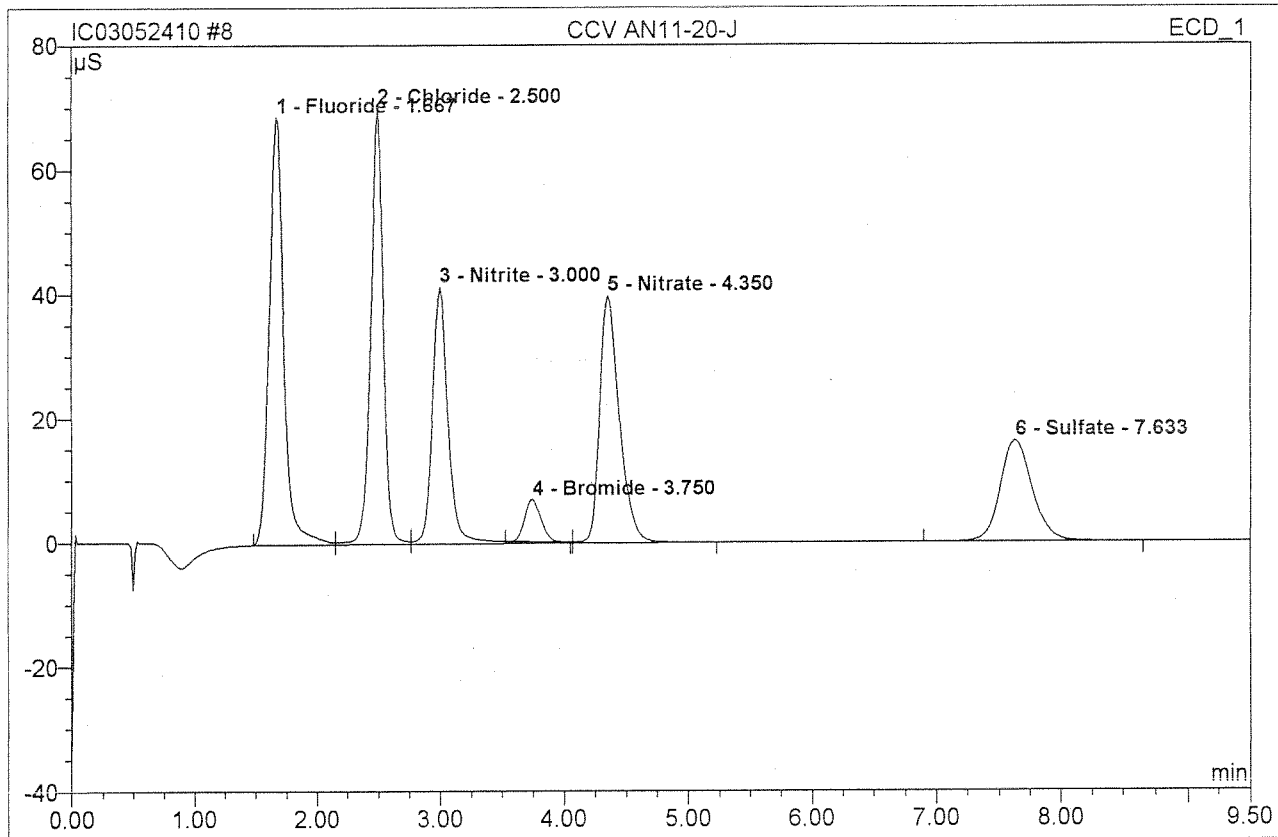
default/Integration

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

# 8 CCV AN11-20-J

## CCV1

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCV AN11-20-J  | Injection Volume: | 200.0  |
| Vial Number:     | 8              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 9:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.67         | Fluoride  | 68.802    | 9.316       | 25.10      | 4.869  | BM   |
| 2             | 2.50         | Chloride  | 70.127    | 8.313       | 22.40      | 5.331  | M    |
| 3             | 3.00         | Nitrite   | 41.321    | 6.212       | 16.74      | 2.151  | M    |
| 4             | 3.75         | Bromide   | 6.812     | 1.044       | 2.81       | 1.948  | Rd   |
| 5             | 4.35         | Nitrate   | 39.759    | 7.347       | 19.80      | 1.994  | MB   |
| 6             | 7.63         | Sulfate   | 16.332    | 4.877       | 13.14      | 4.956  | BMB  |
| <b>Total:</b> |              |           | 243.153   | 37.109      | 100.00     | 21.249 |      |

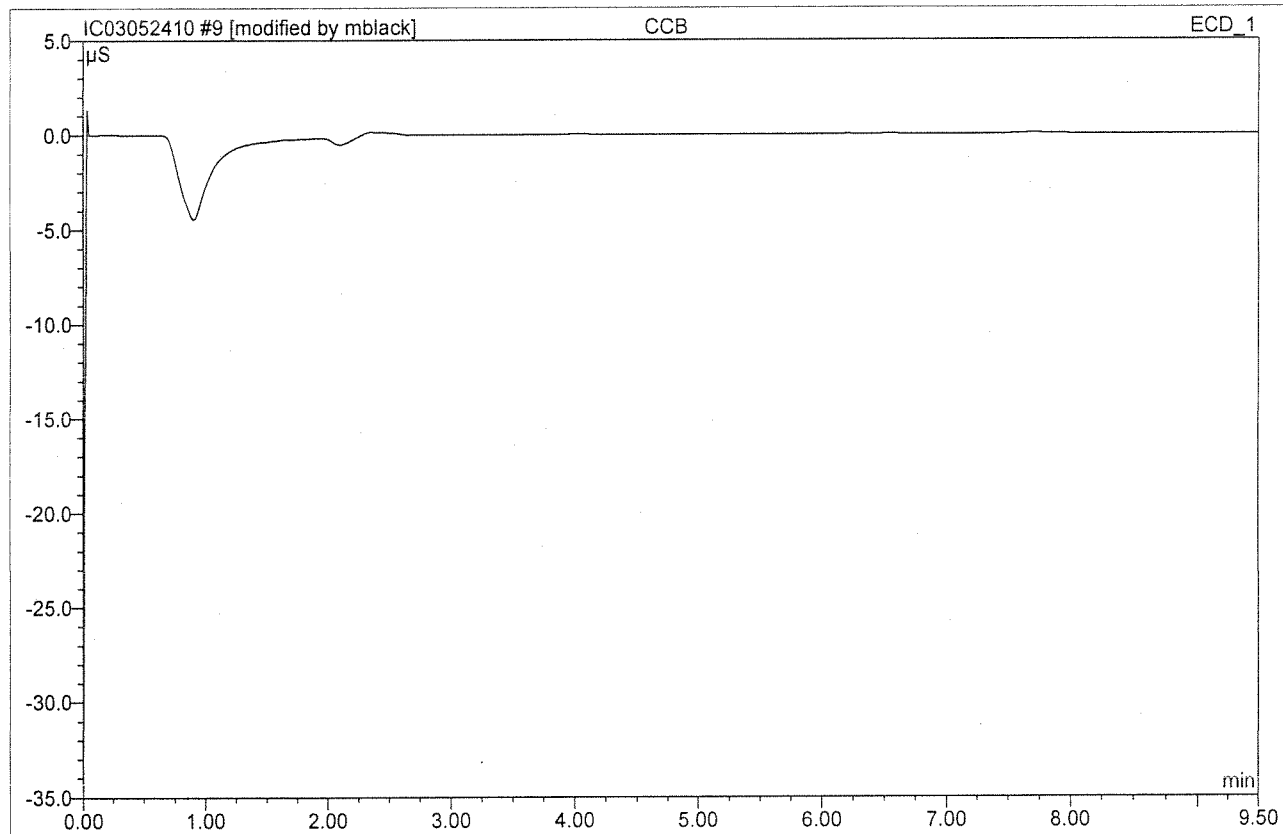
Retore

MAY 24 2010


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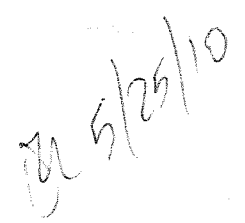
default/Integration

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>9 CCB</b>     |                |                   |        |
| <b>CCB1</b>      |                |                   |        |
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



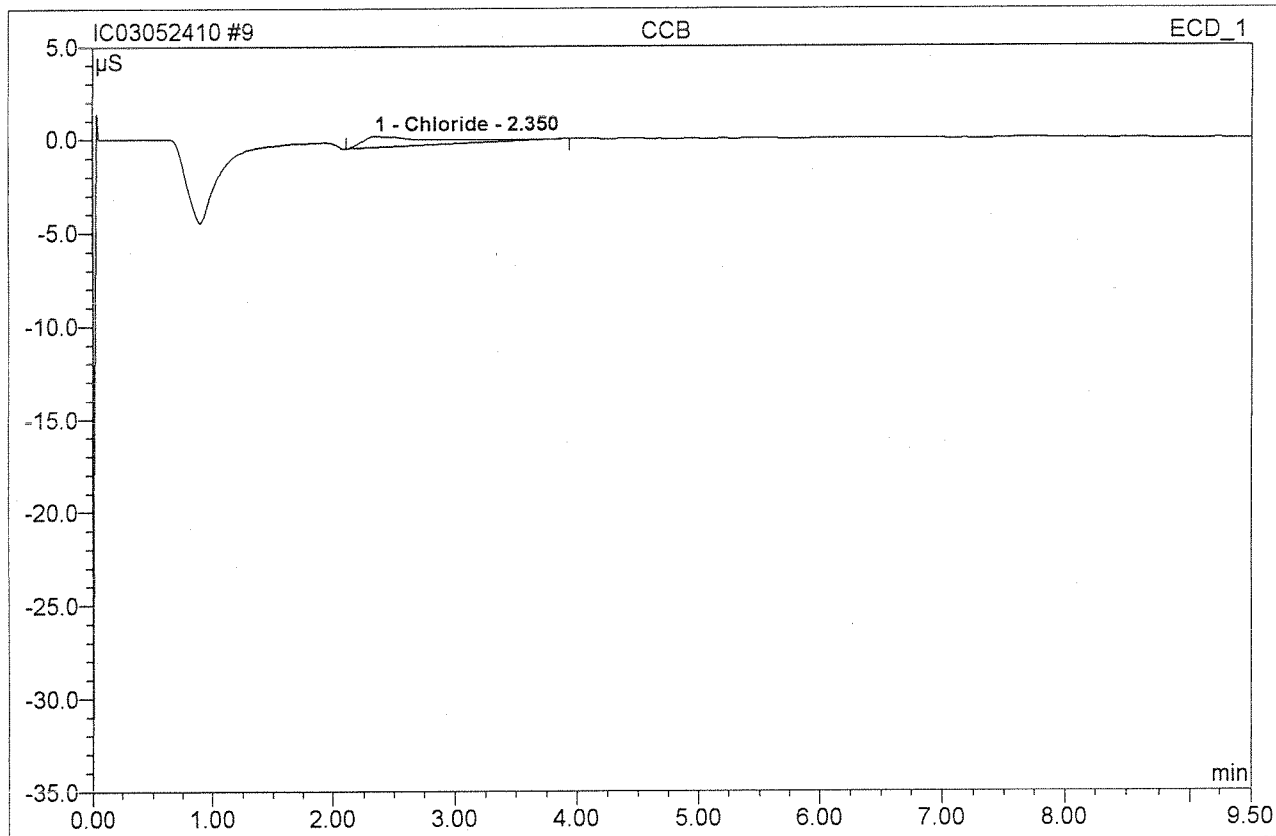
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| <b>Total:</b> |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

  
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 5/25/10

**9 CCB****CCB1**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



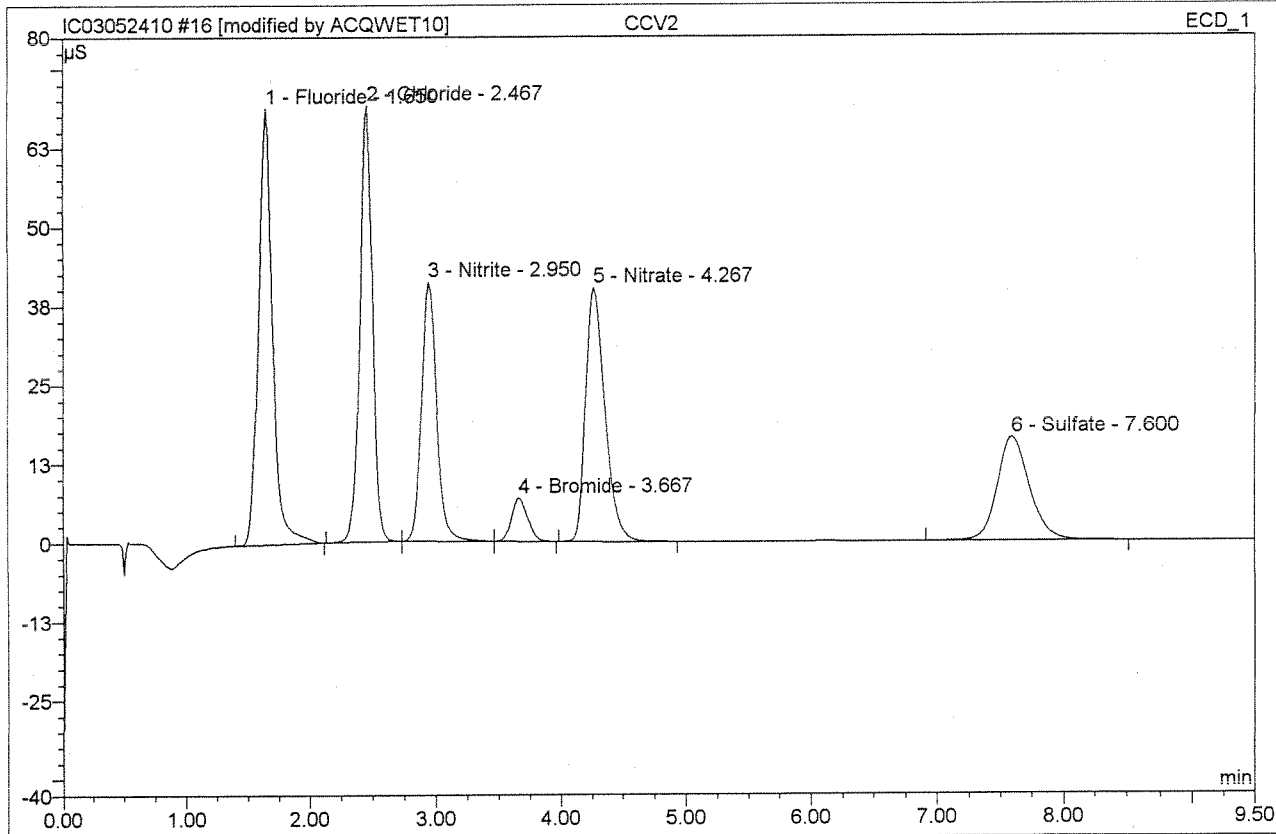
| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 2.35             | Chloride  | 0.607                   | 0.440                                | 100.00         | 0.282  | BMB  |
| <b>Total:</b> |                  |           | 0.607                   | 0.440                                | 100.00         | 0.282  |      |

Before

MAY 24 2010



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>16 CCV2</b>   |                 |                   |        |
| <b>CCV2</b>      |                 |                   |        |
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:48 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount                | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|-----------------------|------|
| 1             | 1.65             | Fluoride  | 69.011       | 9.112          | 25.39          | 4.762 <sup>95?</sup>  | BMB* |
| 2             | 2.47             | Chloride  | 68.975       | 7.936          | 22.12          | 5.089 <sup>102?</sup> | BMb  |
| 3             | 2.95             | Nitrite   | 40.998       | 5.729          | 15.96          | 1.984 <sup>99?</sup>  | bMb  |
| 4             | 3.67             | Bromide   | 6.911        | 1.036          | 2.89           | 1.934 <sup>97?</sup>  | bMB  |
| 5             | 4.27             | Nitrate   | 40.177       | 7.225          | 20.13          | 1.961 <sup>98?</sup>  | BMB  |
| 6             | 7.60             | Sulfate   | 16.384       | 4.847          | 13.51          | 4.925 <sup>99?</sup>  | BMB  |
| <b>Total:</b> |                  |           | 242.456      | 35.886         | 100.00         | 20.656                |      |

After Initials MB

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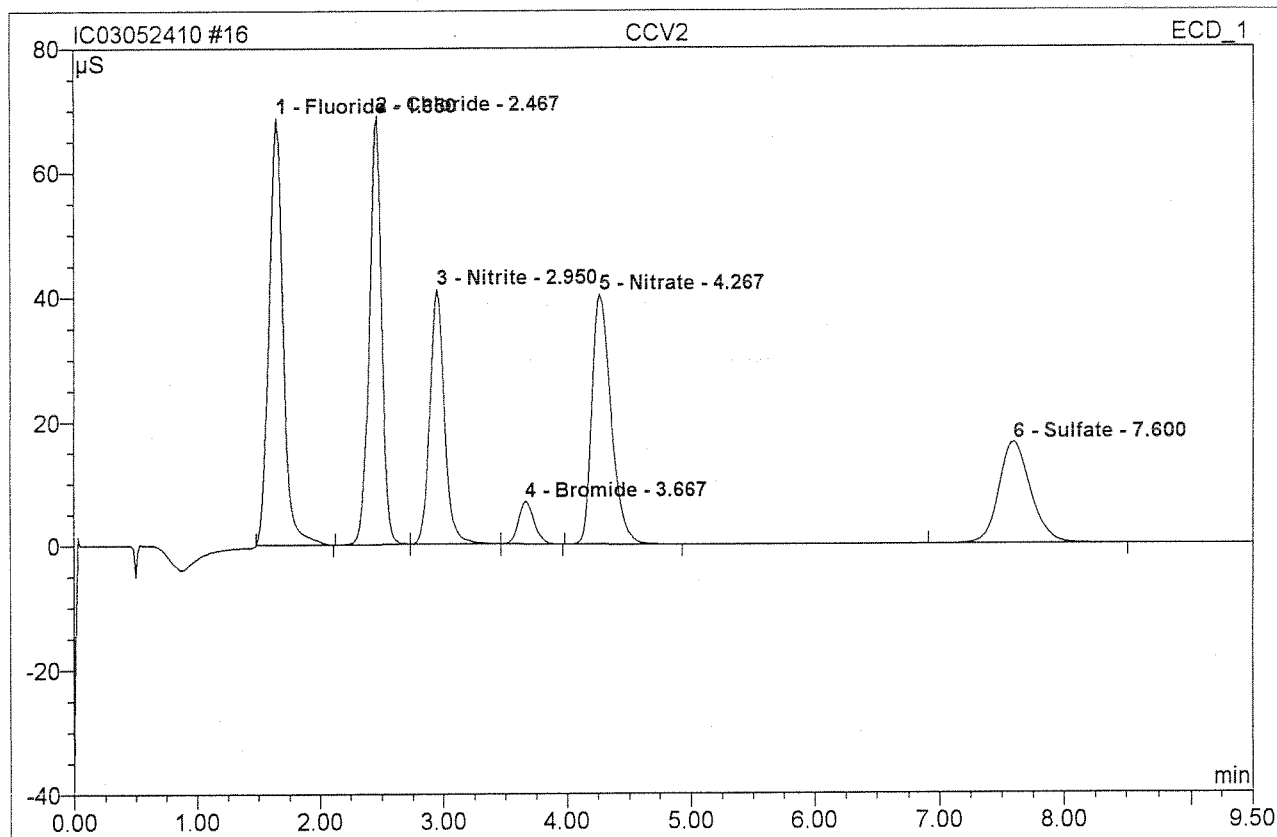
default/integration

Chromatogram

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**16 CCV2****CCV2**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 10:48 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.65             | Fluoride  | 68.650       | 8.950          | 25.05          | 4.677  | BMB  |
| 2             | 2.47             | Chloride  | 68.975       | 7.936          | 22.22          | 5.089  | BMb  |
| 3             | 2.95             | Nitrite   | 40.998       | 5.729          | 16.04          | 1.984  | bMb  |
| 4             | 3.67             | Bromide   | 6.911        | 1.036          | 2.90           | 1.934  | bMB  |
| 5             | 4.27             | Nitrate   | 40.177       | 7.225          | 20.22          | 1.961  | BMB  |
| 6             | 7.60             | Sulfate   | 16.384       | 4.847          | 13.57          | 4.925  | BMB  |
| <b>Total:</b> |                  |           | 242.095      | 35.723         | 100.00         | 20.571 |      |

Before

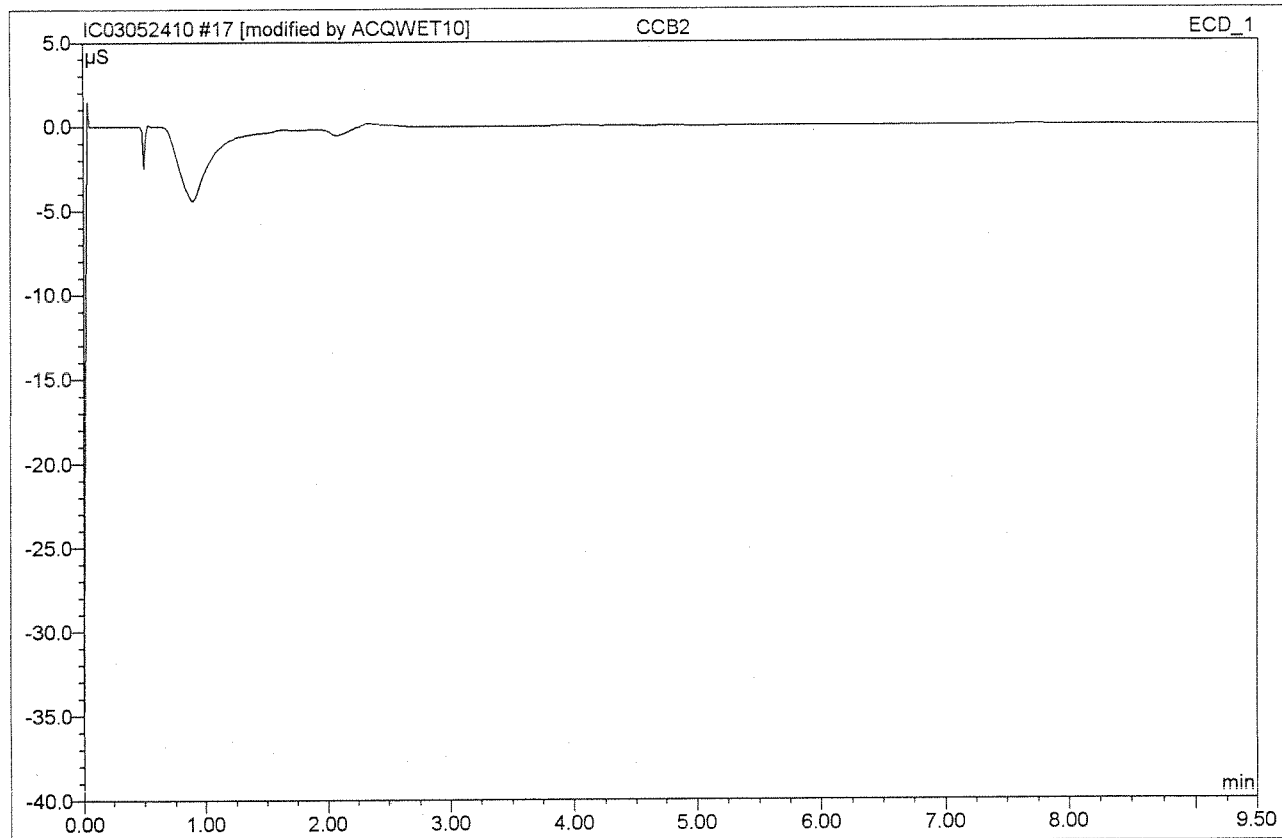
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default/Integration

**17 CCB2****CCB2**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 11:00 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|--------------|----------------|----------------|--------|------|
| Total: |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

After  
Injection

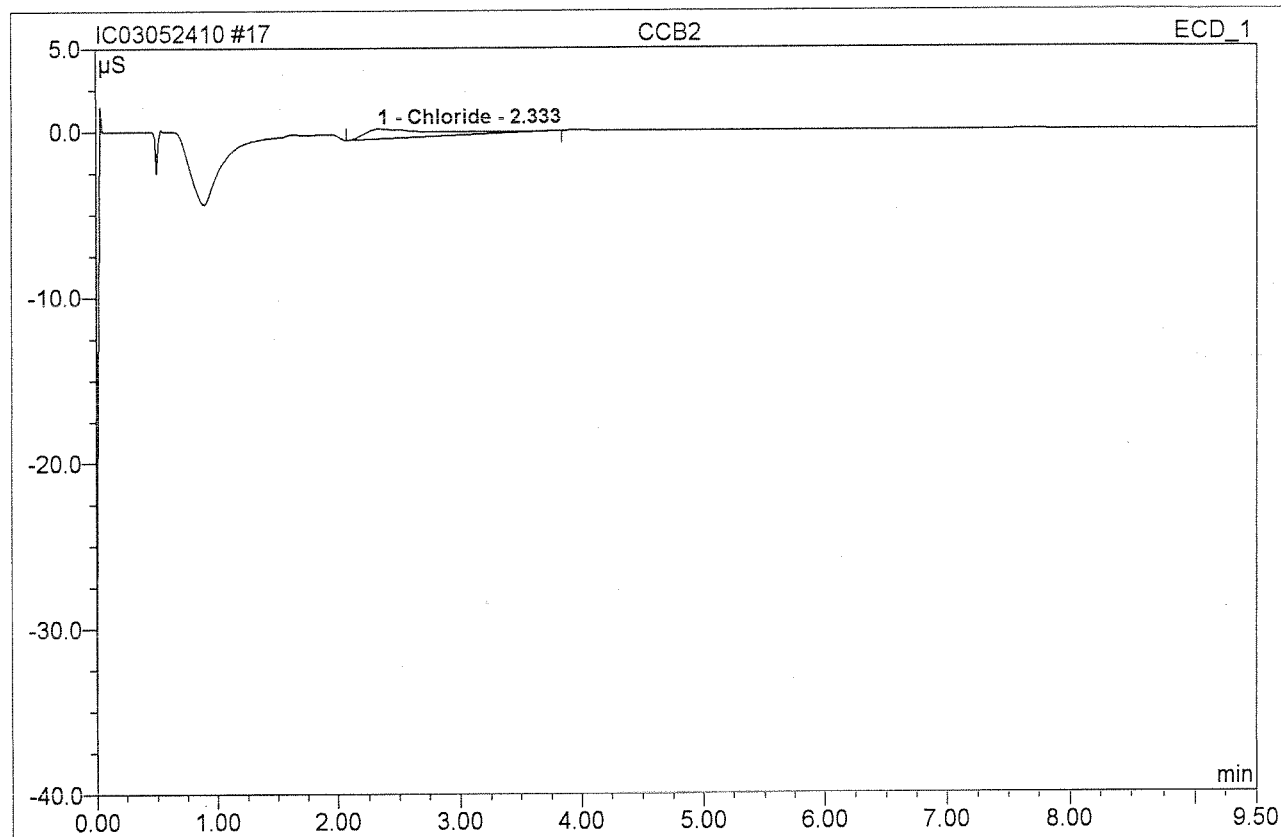
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Version 6.50 SP1 Build 956

default/Integration

**17 CCB2****CCB2**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 11:00 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

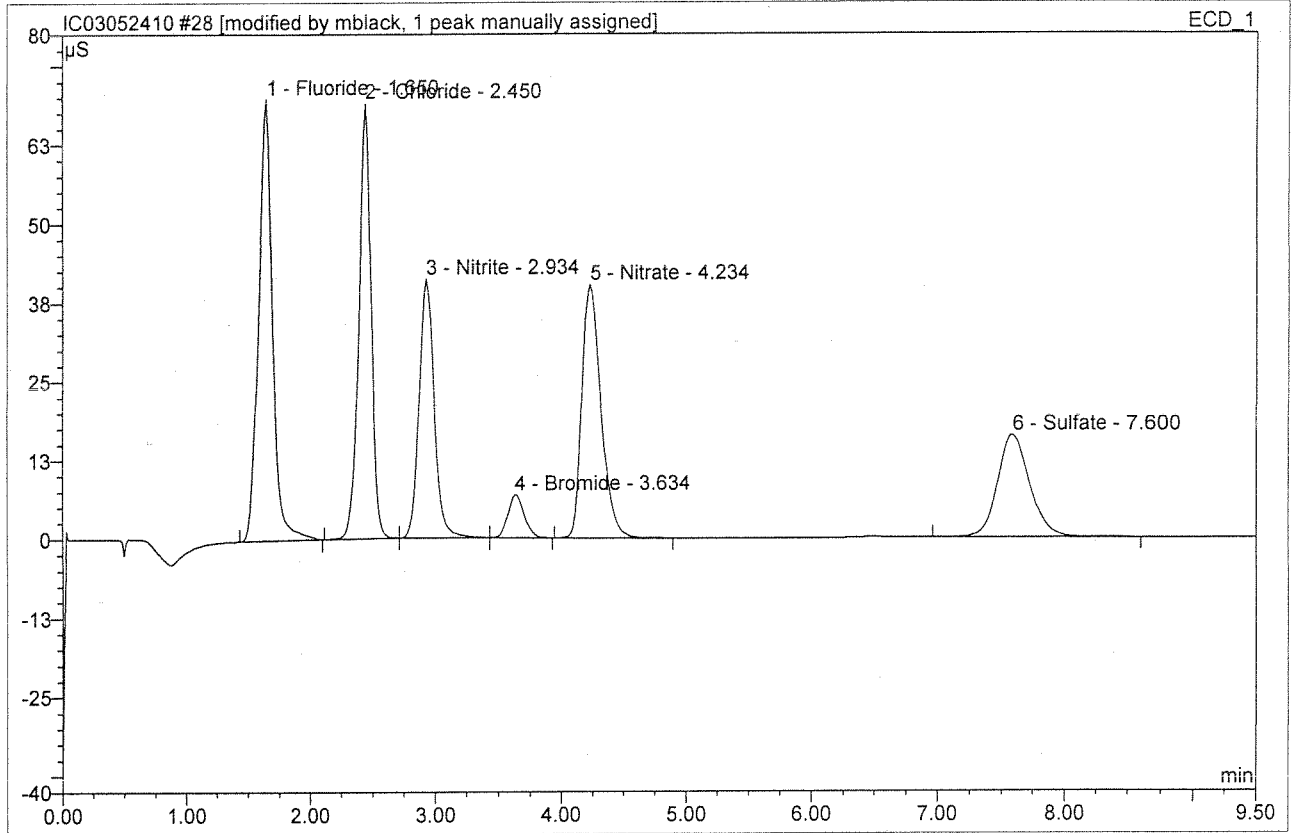


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.33             | Chloride  | 0.621        | 0.432          | 100.00         | 0.277  | BMB  |
| <b>Total:</b> |                  |           | 0.621        | 0.432          | 100.00         | 0.277  |      |

Before

MAY 24 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>28 CCV3</b>   |                 |                   |        |
| <b>CCV3</b>      |                 |                   |        |
| Sample Name:     | CCV3            | Injection Volume: | 200.0  |
| Vial Number:     | 27              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 13:39 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount    | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------|------|
| 1             | 1.65            | Fluoride  | 69.993       | 9.160          | 25.66         | 4.78796?  | BMB* |
| 2             | 2.45            | Chloride  | 69.051       | 7.835          | 21.95         | 5.024100? | BMb^ |
| 3             | 2.93            | Nitrite   | 41.064       | 5.738          | 16.07         | 1.987100? | bMb  |
| 4             | 3.63            | Bromide   | 6.839        | 1.026          | 2.87          | 1.91546?  | bMB  |
| 5             | 4.23            | Nitrate   | 40.206       | 7.140          | 20.00         | 1.93897?  | BMB  |
| 6             | 7.60            | Sulfate   | 16.263       | 4.798          | 13.44         | 4.87698?  | BMB  |
| <b>Total:</b> |                 |           | 243.416      | 35.697         | 100.00        | 20.527    |      |

APW  
Initials

MB

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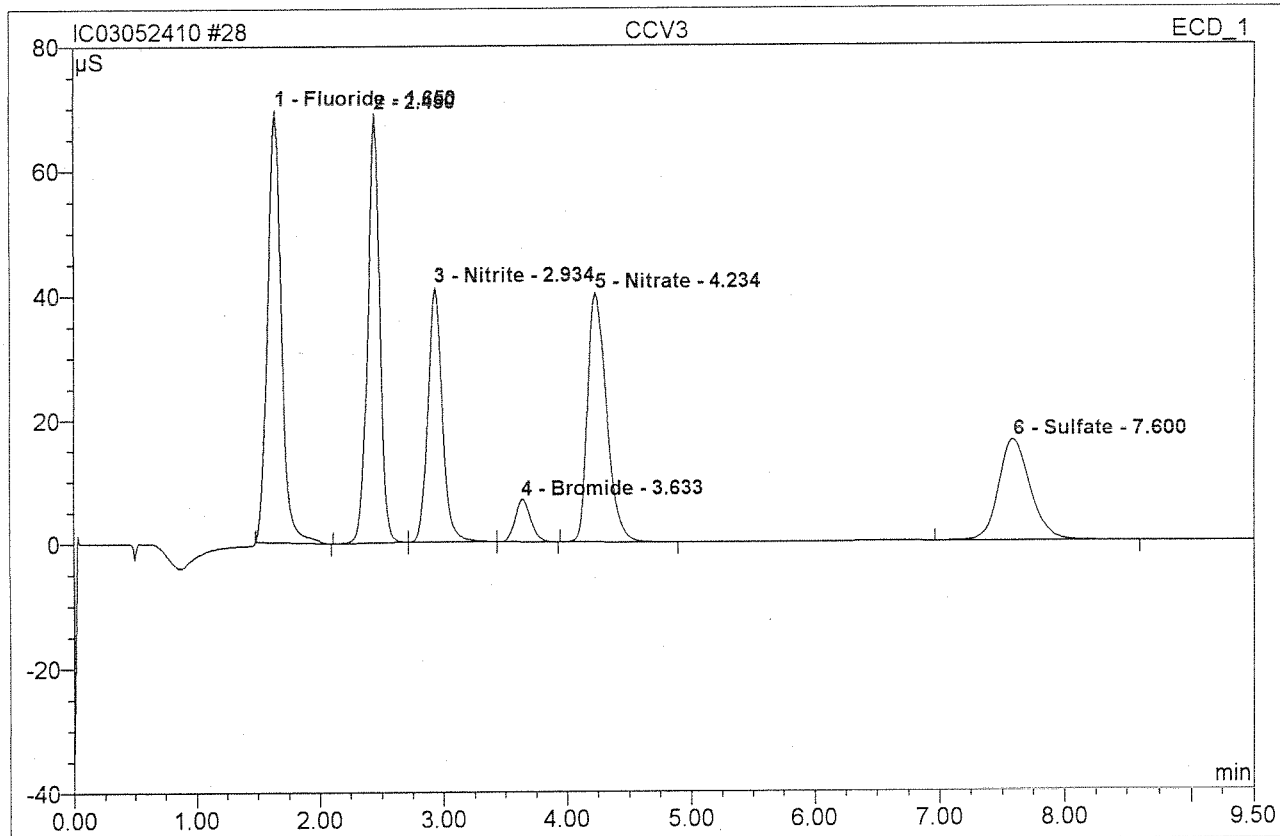
default/integration

Integrator Peak not found  
Assigned to method  
and

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**28 CCV3****CCV3**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV3            | Injection Volume: | 200.0  |
| Vial Number:     | 27              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 13:39 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.65            | Fluoride  | 69.517       | 8.950          | 25.22         | 4.677  | BMB  |
| 2             | 2.45            | n.a.      | 69.051       | 7.835          | 22.08         | n.a.   | BMb  |
| 3             | 2.93            | Nitrite   | 41.064       | 5.738          | 16.17         | 1.987  | bMb  |
| 4             | 3.63            | Bromide   | 6.839        | 1.026          | 2.89          | 1.915  | bMB  |
| 5             | 4.23            | Nitrate   | 40.206       | 7.140          | 20.12         | 1.938  | BMB  |
| 6             | 7.60            | Sulfate   | 16.263       | 4.798          | 13.52         | 4.876  | BMB  |
| <b>Total:</b> |                 |           | 242.940      | 35.487         | 100.00        | 15.393 |      |

Before

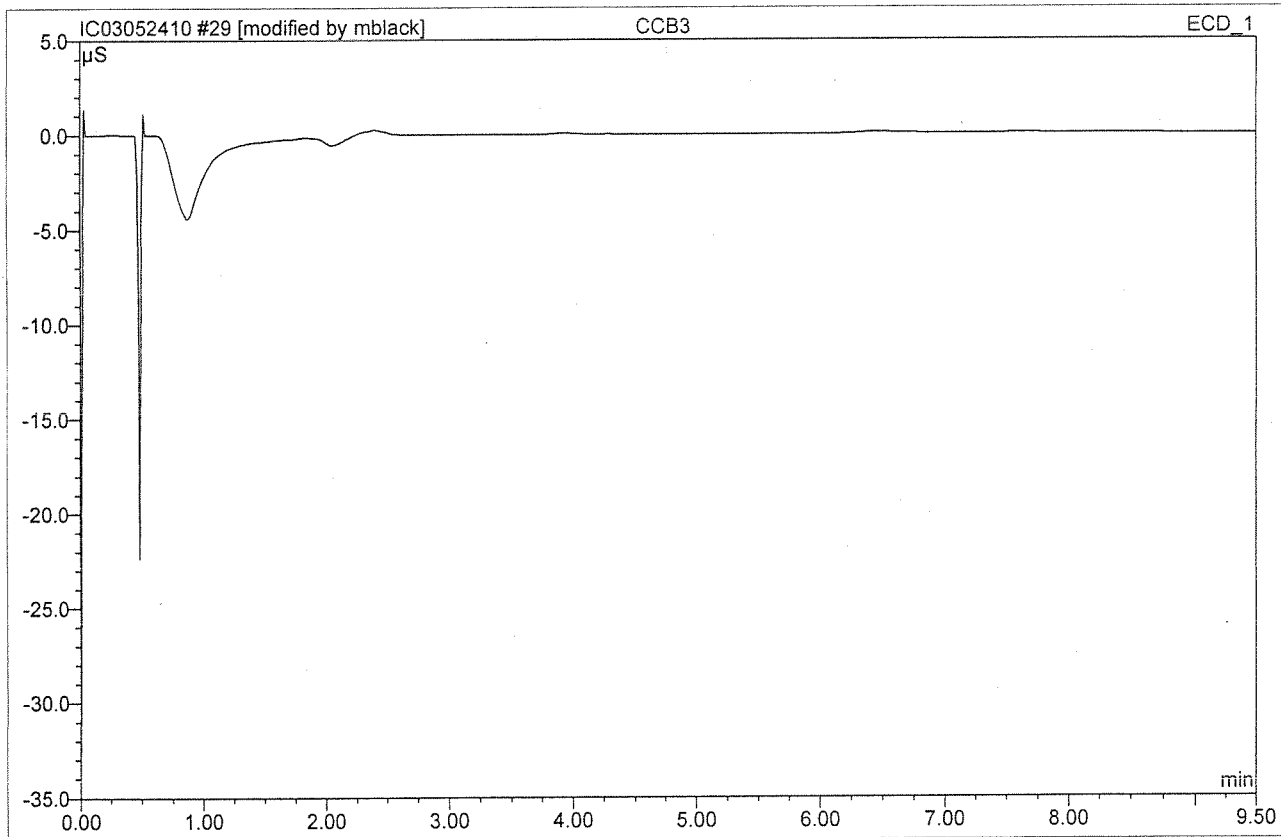
MAY 24 2010

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Version 6.50 SP1 Build 956

default/Integration



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>29 CCB3</b>   |                 |                   |        |
| <b>CCB3</b>      |                 |                   |        |
| Sample Name:     | CCB3            | Injection Volume: | 200.0  |
| Vial Number:     | 28              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 13:51 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

After Initials

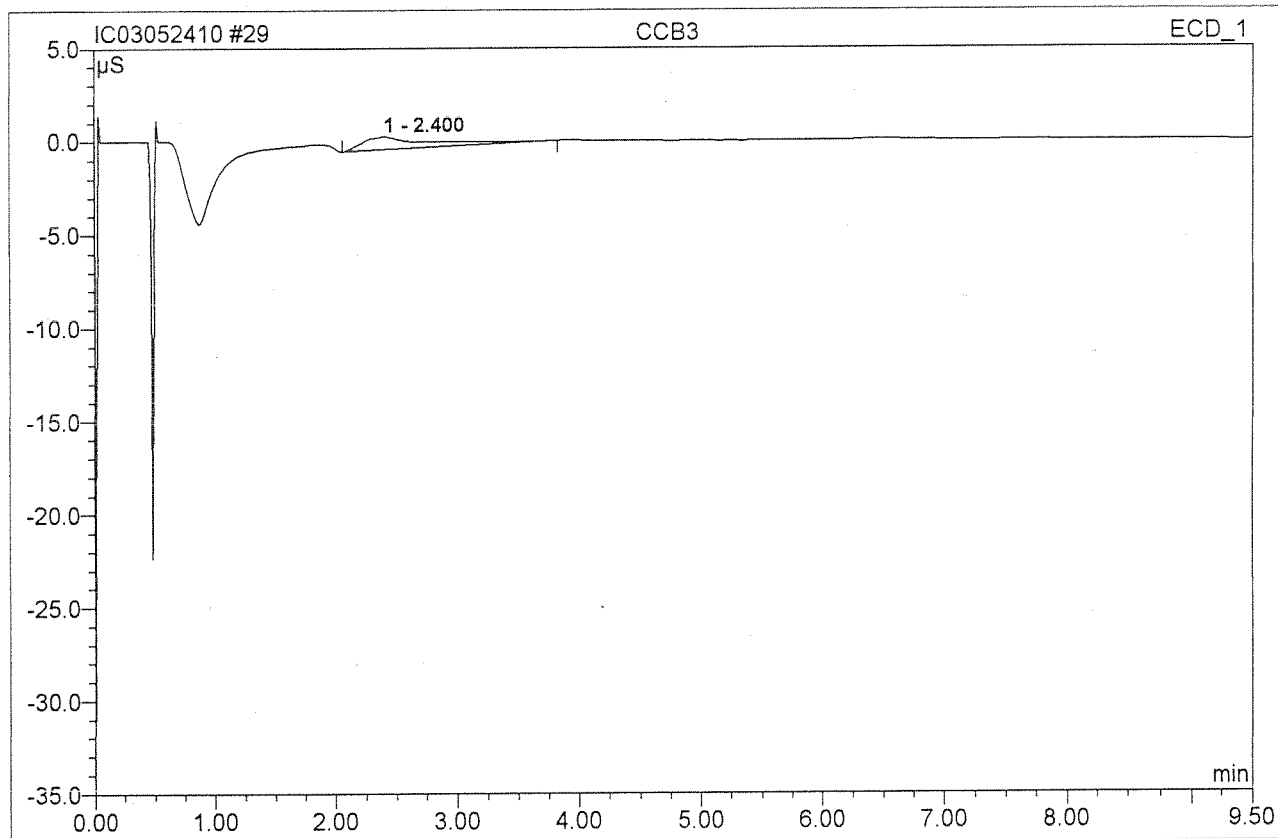
*MB*

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*5/25/10*

**29 CCB3****CCB3**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB3            | Injection Volume: | 200.0  |
| Vial Number:     | 28              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 13:51 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

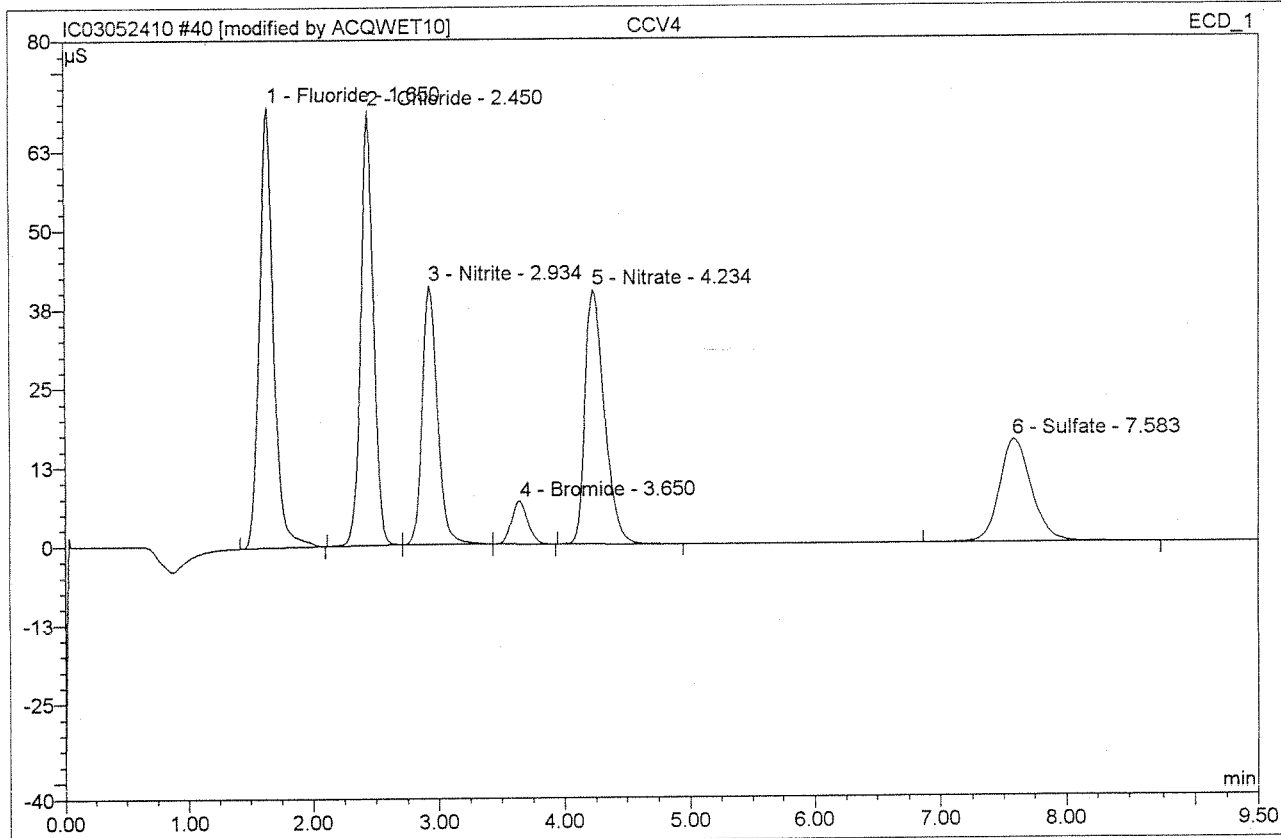


| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.40            | n.a.      | 0.697        | 0.451          | 100.00        | n.a.   | BMB  |
| <b>Total:</b> |                 |           | 0.697        | 0.451          | 100.00        | 0.000  |      |

Before

MAY 24 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>40 CCV4</b>   |                 |                   |        |
| <b>CCV4</b>      |                 |                   |        |
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 39              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 16:03 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height µS | Area µS*min | Rel. Area % | Amount    | Type |
|---------------|---------------|-----------|-----------|-------------|-------------|-----------|------|
| 1             | 1.65          | Fluoride  | 69.729    | 9.205       | 25.64       | 4.81196%  | BMB* |
| 2             | 2.45          | Chloride  | 68.721    | 7.953       | 22.15       | 5.100102% | BMB  |
| 3             | 2.93          | Nitrite   | 40.861    | 5.727       | 15.95       | 1.98399%  | bMB  |
| 4             | 3.65          | Bromide   | 6.827     | 1.026       | 2.86        | 1.91596%  | bMB  |
| 5             | 4.23          | Nitrate   | 40.183    | 7.166       | 19.96       | 1.94518%  | BMB  |
| 6             | 7.58          | Sulfate   | 16.299    | 4.828       | 13.45       | 4.90648%  | BMB  |
| <b>Total:</b> |               |           | 242.620   | 35.905      | 100.00      | 20.660    |      |

*ML*

*JK 5/25/10*

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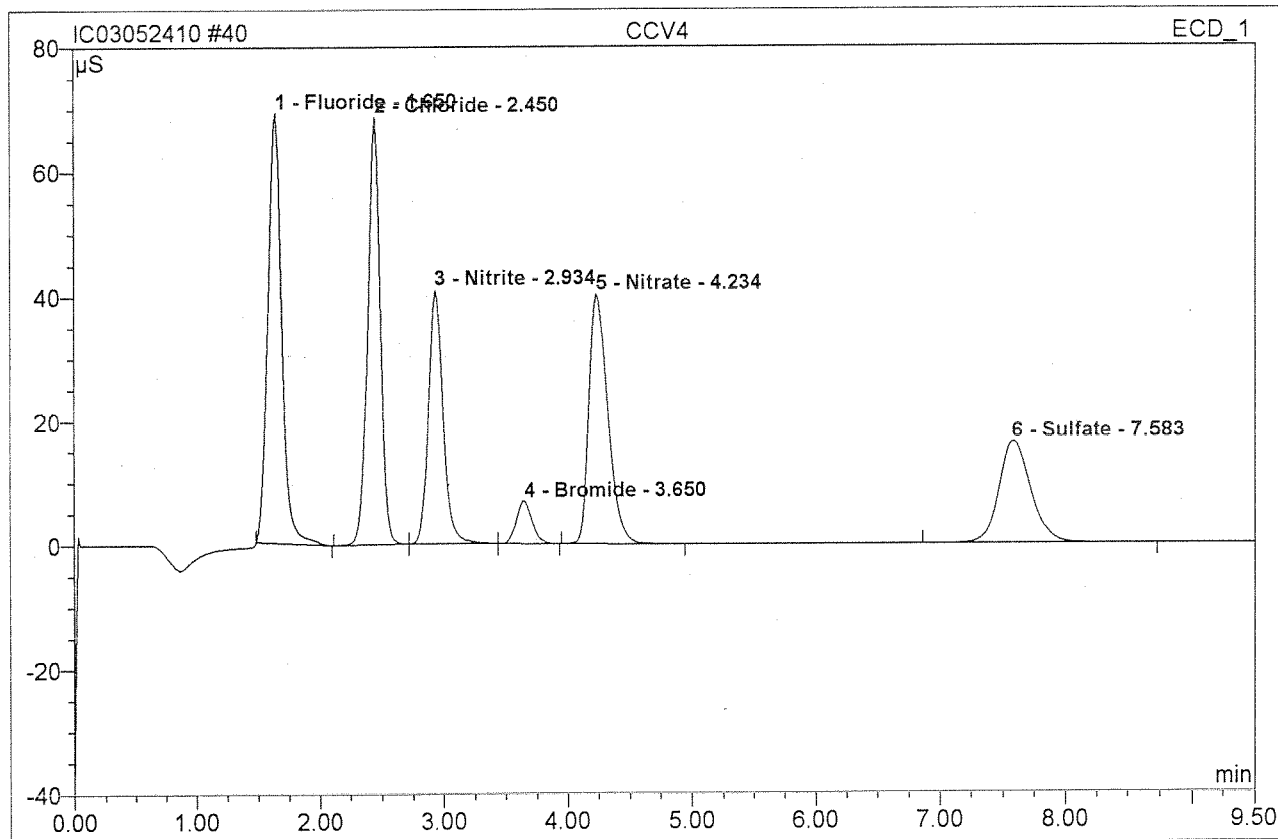
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default/Integration

# 40 CCV4

## CCV4

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 39              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 16:03 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.65             | Fluoride  | 69.101       | 8.927          | 25.06          | 4.665  | BMB  |
| 2             | 2.45             | Chloride  | 68.721       | 7.953          | 22.32          | 5.100  | BMb  |
| 3             | 2.93             | Nitrite   | 40.861       | 5.727          | 16.07          | 1.983  | bMb  |
| 4             | 3.65             | Bromide   | 6.827        | 1.026          | 2.88           | 1.915  | bMB  |
| 5             | 4.23             | Nitrate   | 40.183       | 7.166          | 20.12          | 1.945  | BMB  |
| 6             | 7.58             | Sulfate   | 16.299       | 4.828          | 13.55          | 4.906  | BMB  |
| <b>Total:</b> |                  |           | 241.992      | 35.627         | 100.00         | 20.515 |      |

Before

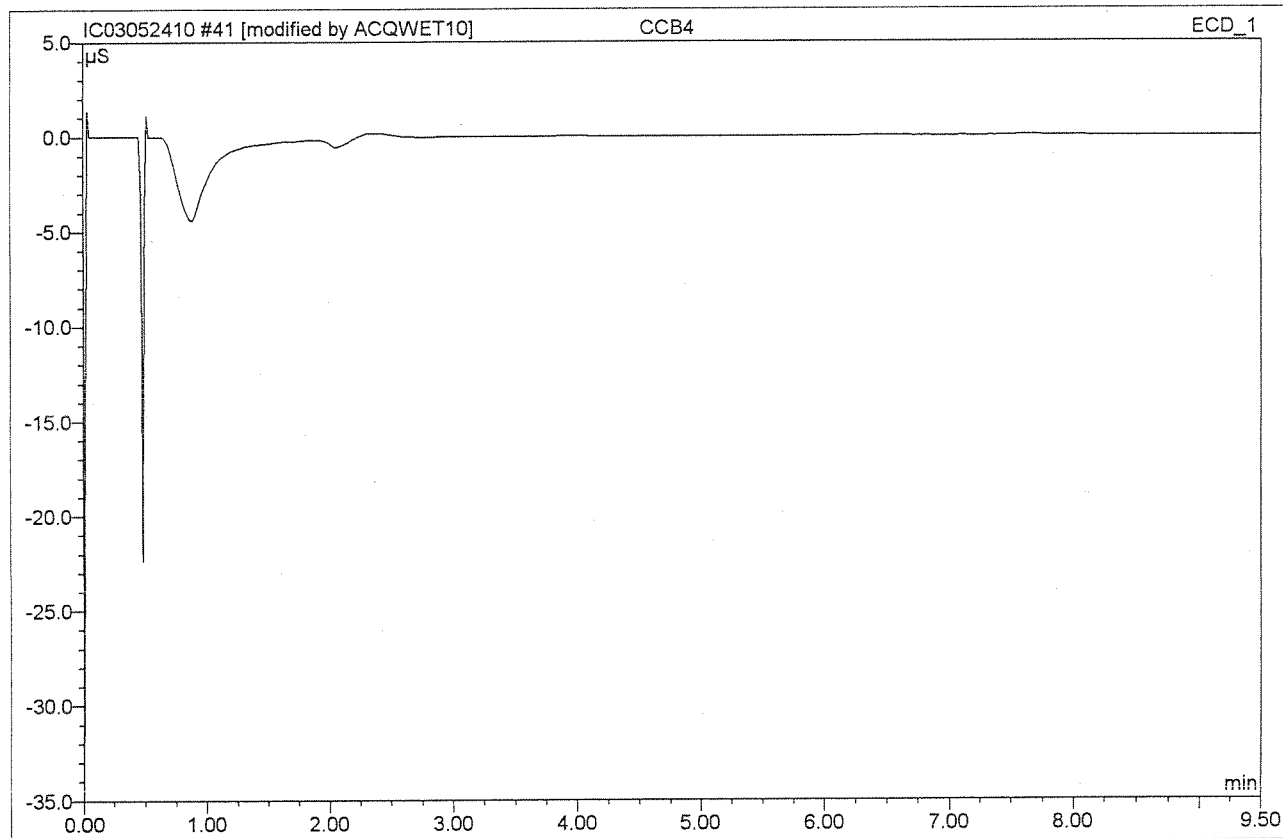
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default/Integration

**41 CCB4****CCB4**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB4            | Injection Volume: | 200.0  |
| Vial Number:     | 40              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|--------|------------------|-----------|--------------|----------------|----------------|--------|------|
| Total: |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

After Initial

MS

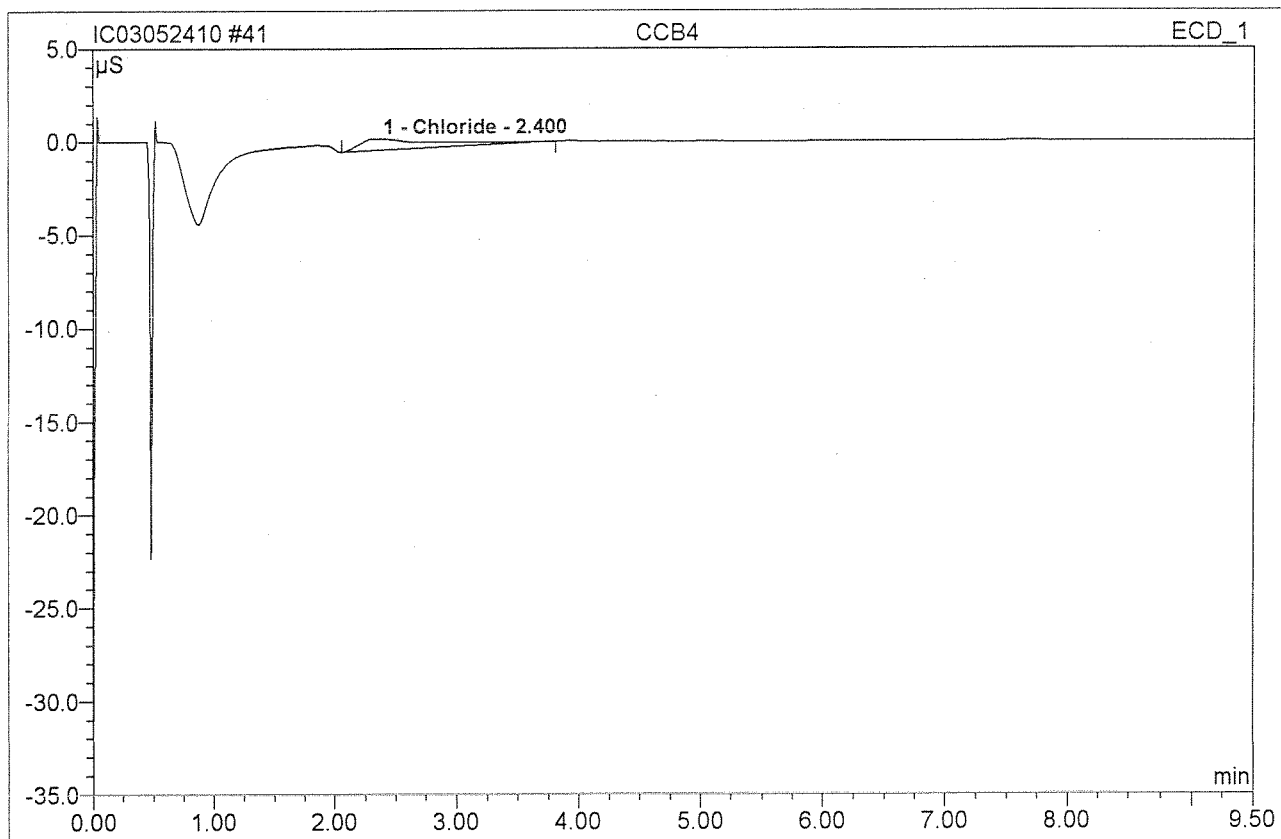
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JL 5/25/10

default/Integration

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>41 CCB4</b>   |                 |                   |        |
| <b>CCB4</b>      |                 |                   |        |
| Sample Name:     | CCB4            | Injection Volume: | 200.0  |
| Vial Number:     | 40              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



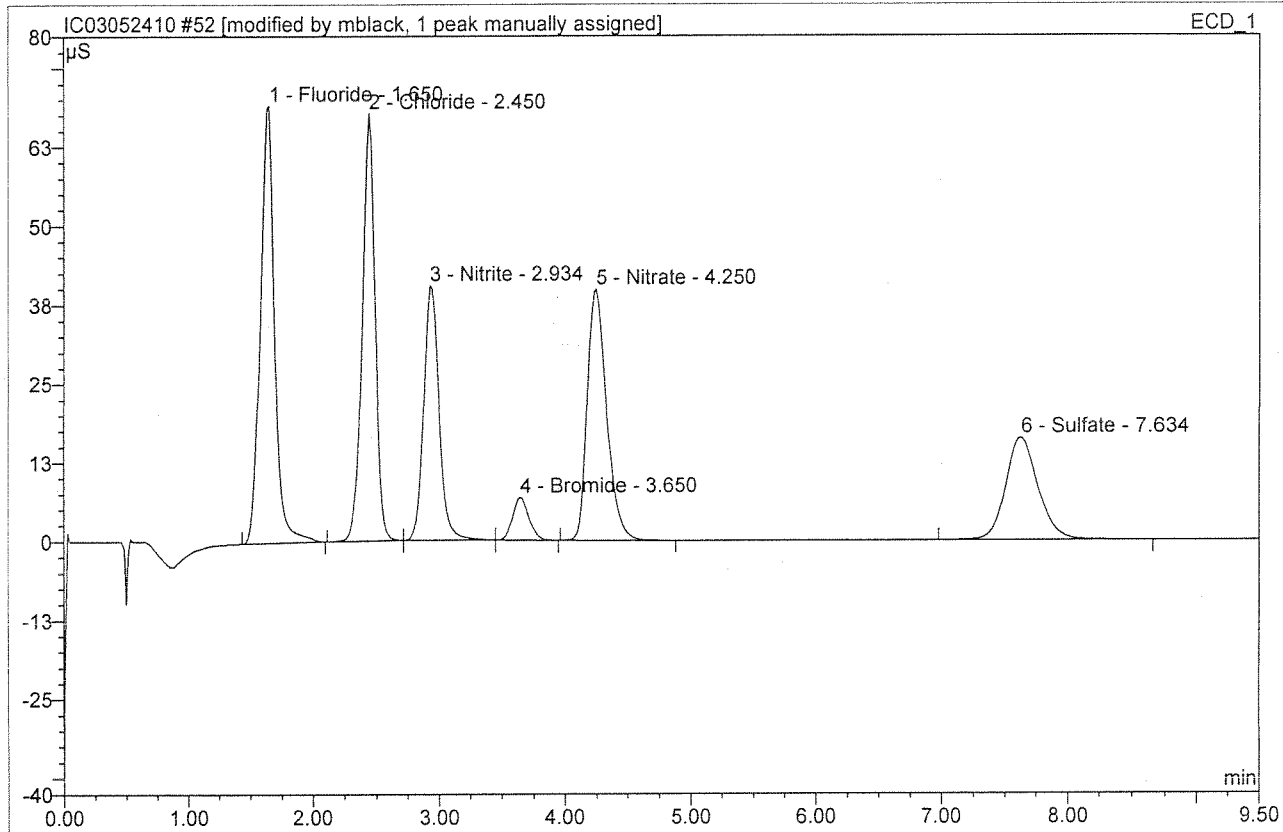
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.40             | Chloride  | 0.612        | 0.446          | 100.00         | 0.286  | BMB  |
| <b>Total:</b> |                  |           | 0.612        | 0.446          | 100.00         | 0.286  |      |

Before

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>52 CCV5</b>   |                 |                   |        |
| <b>CCV5</b>      |                 |                   |        |
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 18:26 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount                | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------------------|------|
| 1             | 1.65         | Fluoride  | 69.325    | 9.138       | 25.54      | 4.776 <sup>96%</sup>  | BMB* |
| 2             | 2.45         | Chloride  | 67.776    | 7.929       | 22.16      | 5.084 <sup>102%</sup> | BMB^ |
| 3             | 2.93         | Nitrite   | 40.297    | 5.713       | 15.97      | 1.979 <sup>99%</sup>  | bMb  |
| 4             | 3.65         | Bromide   | 6.856     | 1.023       | 2.86       | 1.910 <sup>46%</sup>  | bMB  |
| 5             | 4.25         | Nitrate   | 39.847    | 7.149       | 19.98      | 1.941 <sup>97%</sup>  | BMB  |
| 6             | 7.63         | Sulfate   | 16.279    | 4.826       | 13.49      | 4.904 <sup>45%</sup>  | BMB  |
| <b>Total:</b> |              |           | 240.380   | 35.778      | 100.00     | 20.593                |      |

After Initials

*(Signature)*

MAY 25 2010

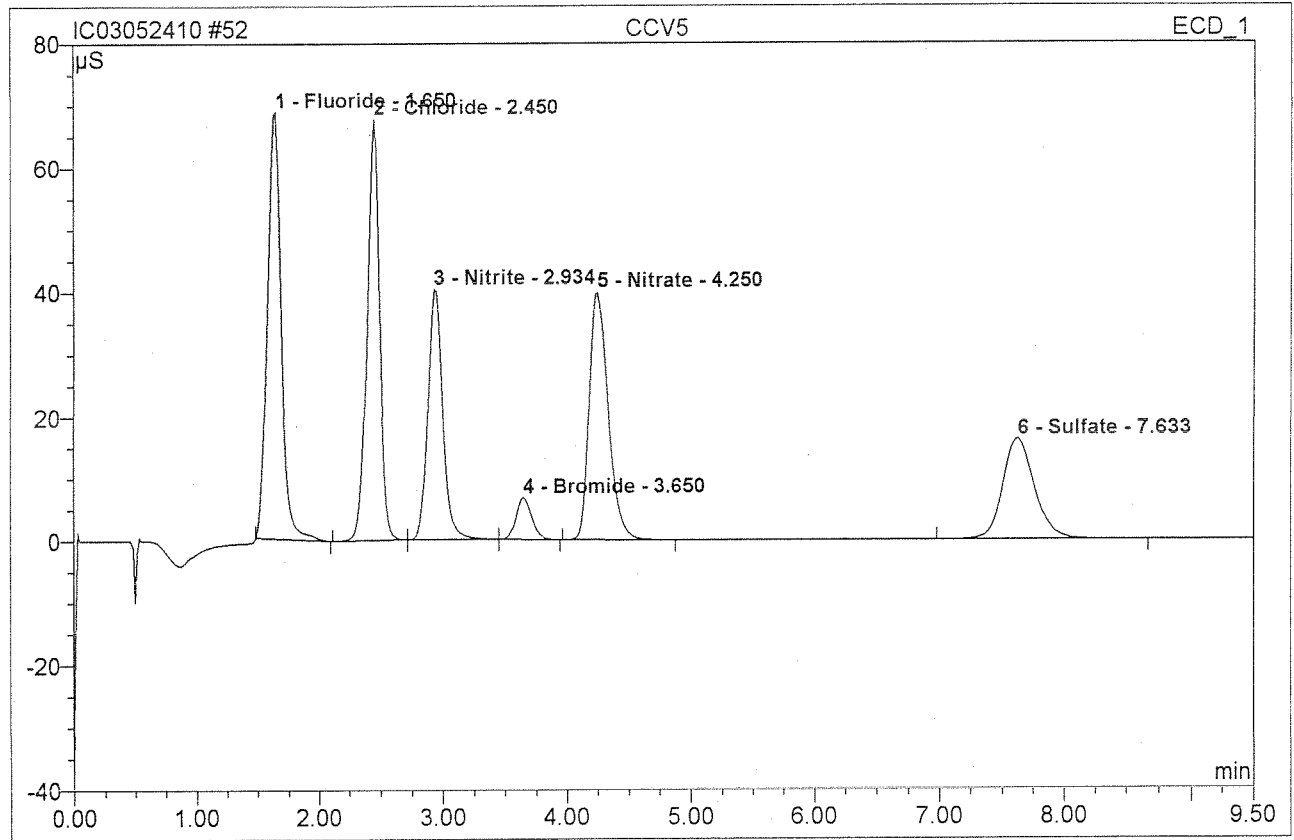
*5/25/10*

default/Integration

*(Signature)*

Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>52 CCV5</b>   |                 |                   |        |
| <b>CCV5</b>      |                 |                   |        |
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 18:26 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time min | Peak Name | Height µS | Area µS*min | Rel. Area % | Amount | Type |
|---------------|---------------|-----------|-----------|-------------|-------------|--------|------|
| 1             | 1.65          | Fluoride  | 68.706    | 8.864       | 24.97       | 4.633  | BMB  |
| 2             | 2.45          | Chloride  | 67.776    | 7.929       | 22.33       | 5.084  | BMb  |
| 3             | 2.93          | Nitrite   | 40.297    | 5.713       | 16.09       | 1.979  | bMb  |
| 4             | 3.65          | Bromide   | 6.856     | 1.023       | 2.88        | 1.910  | bMB  |
| 5             | 4.25          | Nitrate   | 39.847    | 7.149       | 20.14       | 1.941  | BMB  |
| 6             | 7.63          | Sulfate   | 16.279    | 4.826       | 13.59       | 4.904  | BMB  |
| <b>Total:</b> |               |           | 239.761   | 35.504      | 100.00      | 20.450 |      |

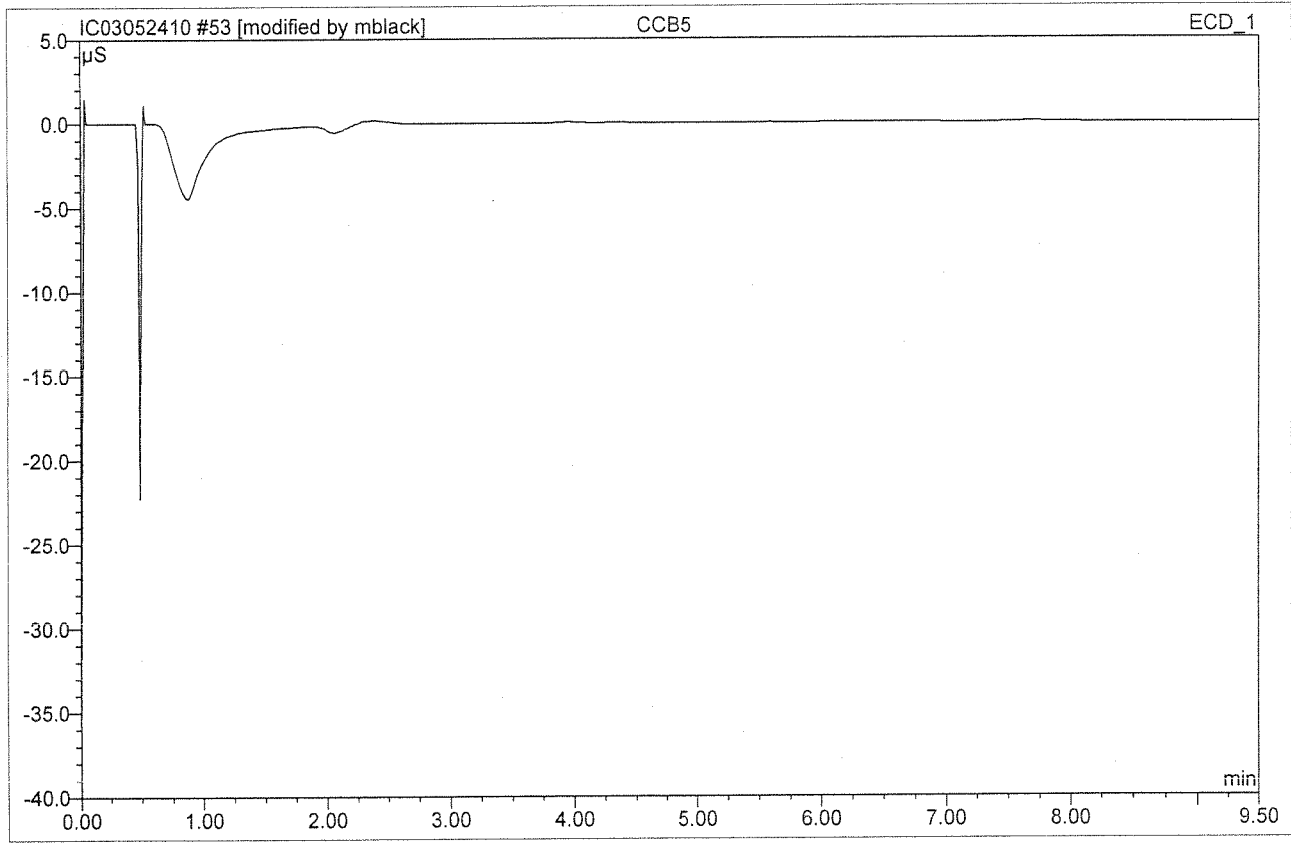
Before

MAY 25 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/Integration

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>53 CCB5</b>   |                 |                   |        |
| <b>CCB5</b>      |                 |                   |        |
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 52              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 18:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



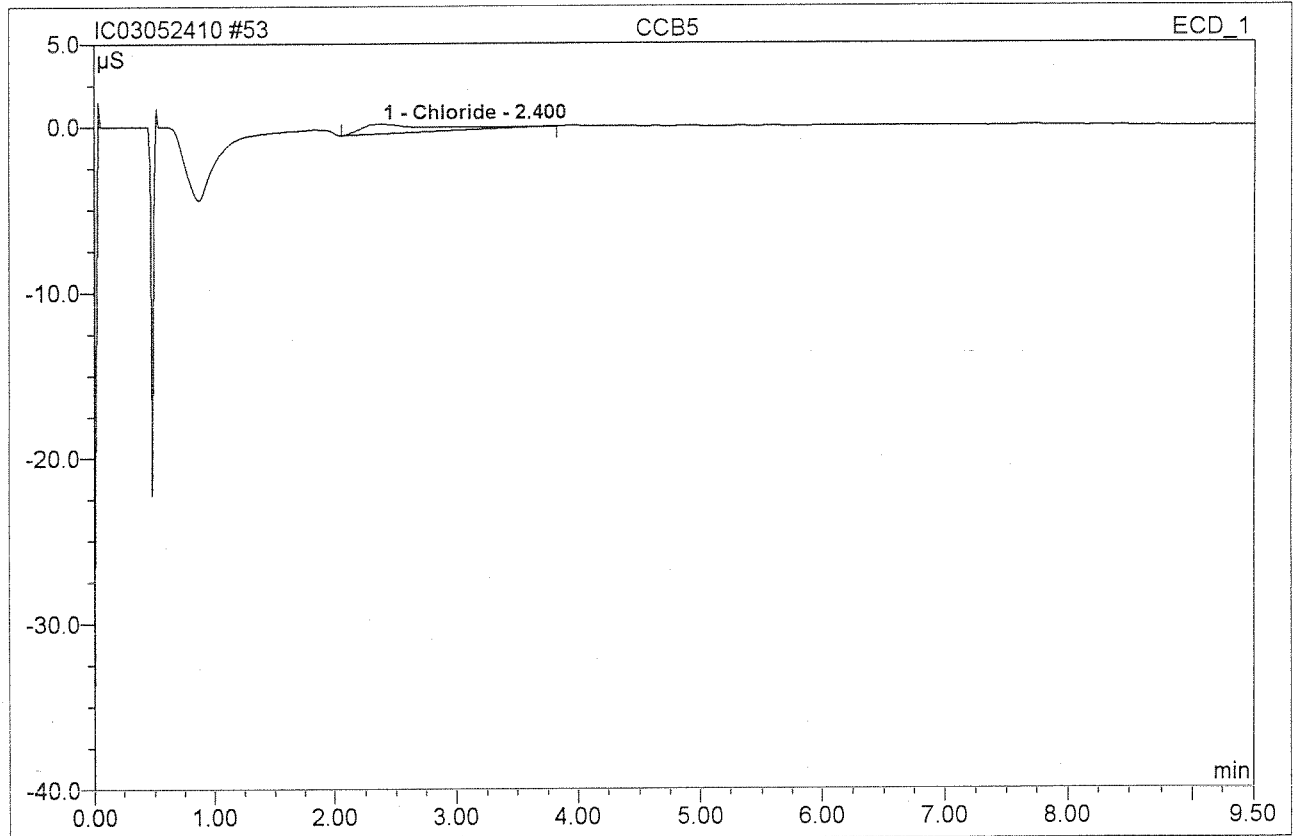
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| <b>Total:</b> |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

After Initials *MB*

*5/25/10*

MAY 25 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>53 CCB5</b>   |                 |                   |        |
| <b>CCB5</b>      |                 |                   |        |
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 52              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 18:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

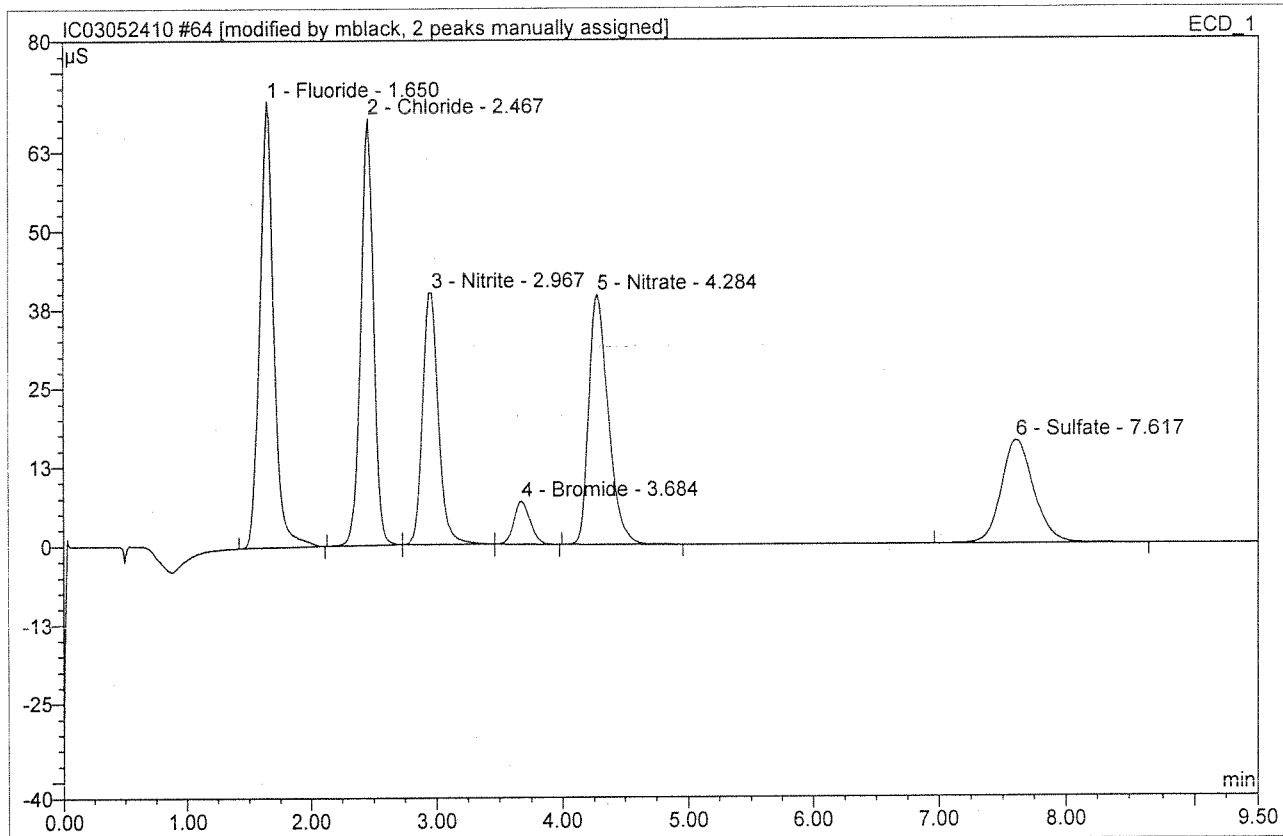


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.40             | Chloride  | 0.605        | 0.439          | 100.00         | 0.282  | BMB  |
| <b>Total:</b> |                  |           | 0.605        | 0.439          | 100.00         | 0.282  |      |

Before

MAY 25 2010

|                  |                        |                   |               |
|------------------|------------------------|-------------------|---------------|
| <b>64 CCV6</b>   |                        |                   |               |
| <b>CCV6</b>      |                        |                   |               |
| Sample Name:     | <b>CCV6</b>            | Injection Volume: | <b>200.0</b>  |
| Vial Number:     | <b>63</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:     | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program: | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method: | <b>epa300</b>          | Dilution Factor:  | <b>1.0000</b> |
| Recording Time:  | <b>5/24/2010 20:50</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):  | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount                | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------------------|------|
| 1             | 1.65         | Fluoride  | 70.694    | 9.259       | 25.75      | 4.839 <sup>97%</sup>  | BMB* |
| 2             | 2.47         | Chloride  | 67.675    | 7.901       | 21.97      | 5.066 <sup>101%</sup> | BMB  |
| 3             | 2.97         | Nitrite   | 39.920    | 5.747       | 15.98      | 1.990 <sup>100%</sup> | bMB^ |
| 4             | 3.68         | Bromide   | 6.822     | 1.030       | 2.87       | 1.923 <sup>76%</sup>  | bMB  |
| 5             | 4.28         | Nitrate   | 39.634    | 7.187       | 19.99      | 1.951 <sup>87%</sup>  | BMB^ |
| 6             | 7.62         | Sulfate   | 16.319    | 4.832       | 13.44      | 4.910 <sup>98%</sup>  | BMB  |
| <b>Total:</b> |              |           | 241.065   | 35.956      | 100.00     | 20.679                |      |

After Initials

*MB*

*5/25/10*

MAY 25 2010

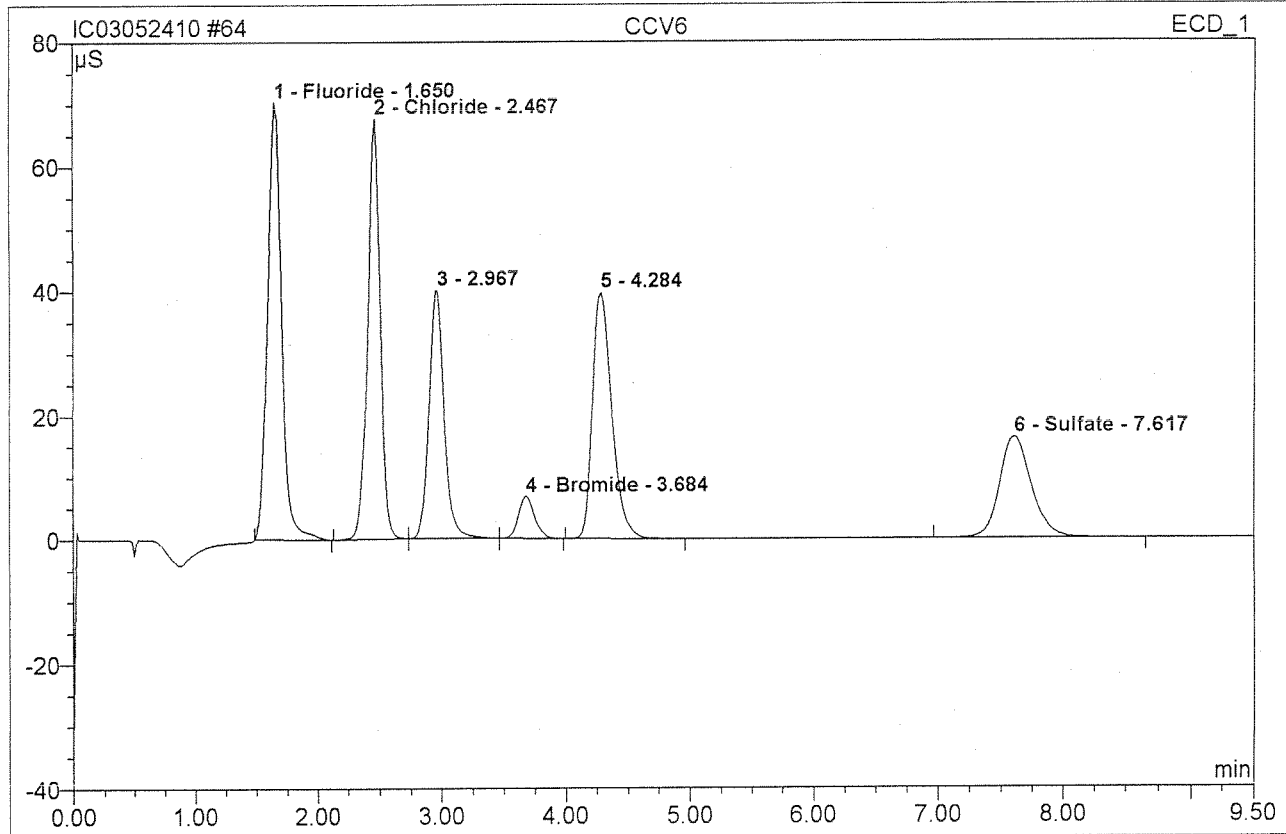
Chromeleon (c) Dionex 1996-2001  
Version 6.80 SP1 Build 2238

default/Integration

*[Signature]*

**64 CCV6****CCV6**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCV6            | Injection Volume: | 200.0  |
| Vial Number:     | 63              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 20:50 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



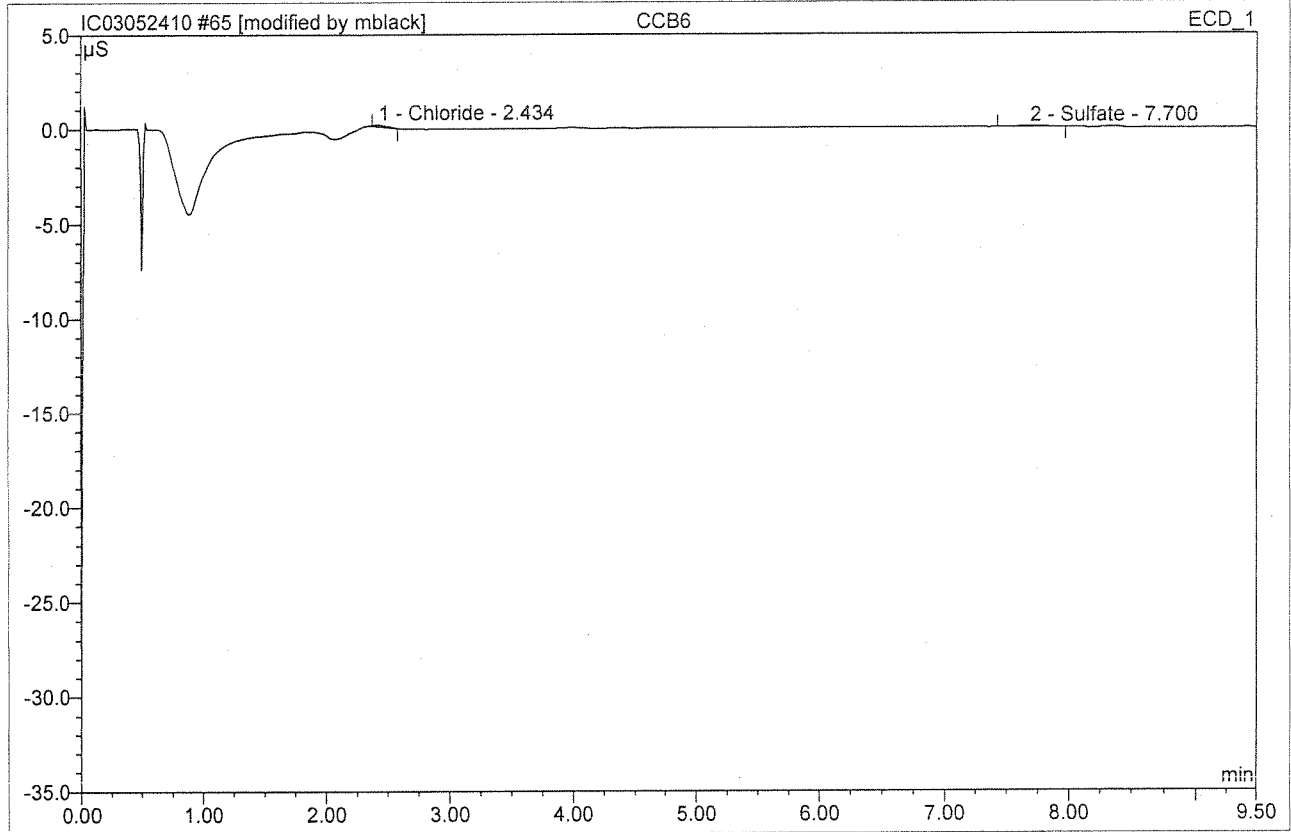
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.65            | Fluoride  | 70.386       | 9.120          | 25.46         | 4.766  | BMB  |
| 2             | 2.47            | Chloride  | 67.675       | 7.901          | 22.06         | 5.066  | BMB  |
| 3             | 2.97            | n.a.      | 39.920       | 5.747          | 16.05         | n.a.   | bMB  |
| 4             | 3.68            | Bromide   | 6.822        | 1.030          | 2.88          | 1.923  | bMB  |
| 5             | 4.28            | n.a.      | 39.634       | 7.187          | 20.07         | n.a.   | BMB  |
| 6             | 7.62            | Sulfate   | 16.319       | 4.832          | 13.49         | 4.910  | BMB  |
| <b>Total:</b> |                 |           | 240.756      | 35.817         | 100.00        | 16.665 |      |

Before

MAY 25 2010



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>65 CCB6</b>   |                 |                   |        |
| <b>CCB6</b>      |                 |                   |        |
| Sample Name:     | CCB6            | Injection Volume: | 200.0  |
| Vial Number:     | 64              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 21:02 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name     | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|---------------|--------------|----------------|----------------|--------|------|
| 1             | 2.43             | Chloride 2.43 | 0.081        | 0.009          | 39.97          | 0.006  | BMB* |
| 2             | 7.70             | Sulfate 7.70  | 0.050        | 0.014          | 60.03          | 0.014  | BMB* |
| <b>Total:</b> |                  |               | 0.131        | 0.023          | 100.00         | 0.019  |      |

After Initials

MS

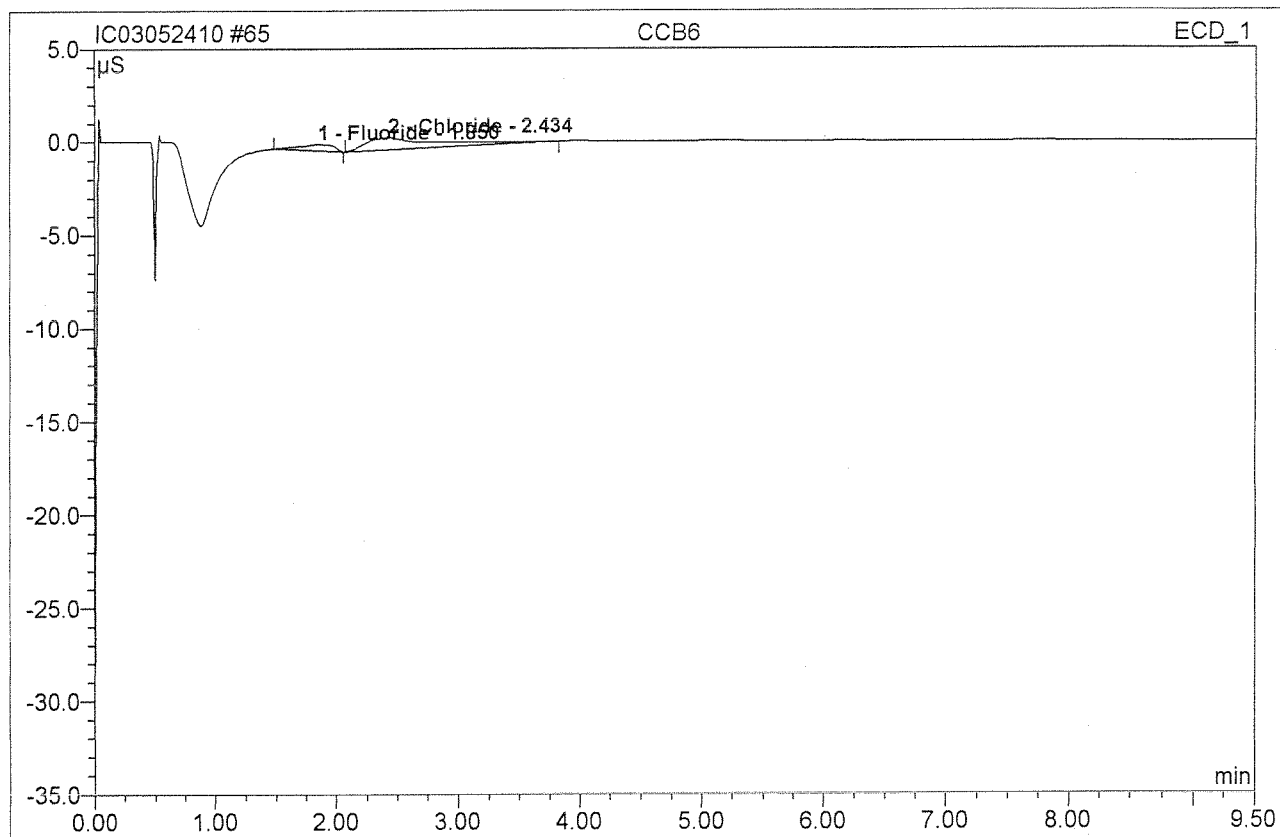
MAY 25 2010

Wrong Peak/Peak not Found  
 Wrong Peak/Peak incorrect

*MS 5/25/10*

**65 CCB6****CCB6**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | CCB6            | Injection Volume: | 200.0  |
| Vial Number:     | 64              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/24/2010 21:02 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.85             | Fluoride  | 0.336        | 0.114          | 20.67          | 0.060  | BMB  |
| 2             | 2.43             | Chloride  | 0.649        | 0.438          | 79.33          | 0.281  | BMB  |
| <b>Total:</b> |                  |           | 0.985        | 0.552          | 100.00         | 0.340  |      |

Before

MAY 25 2010

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

*6/11/10*

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

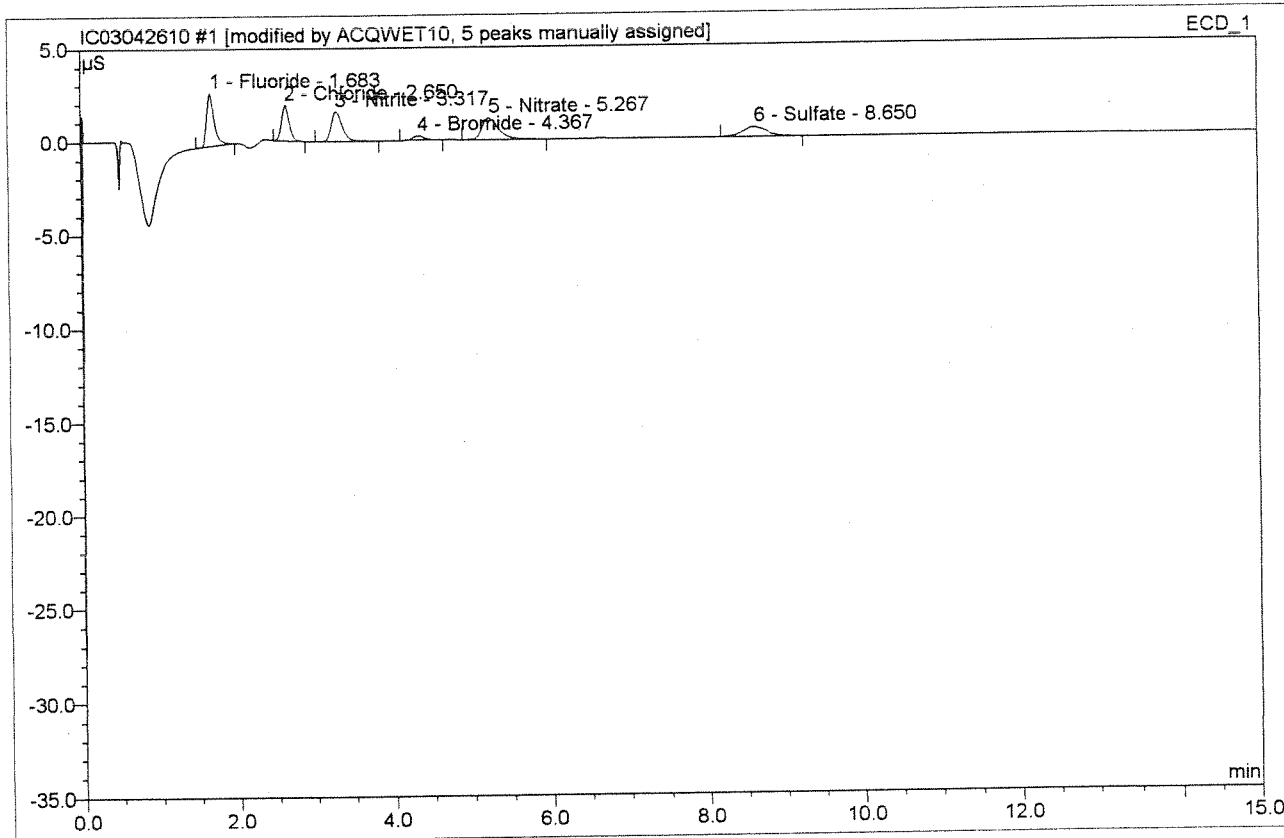
| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

6/4/10

# 1 std2/lvl2

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:     | 1              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 15.00          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type  |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|-------|
| 1             | 1.68            | Fluoride  | 2.860        | 0.324          | 24.73         | 0.169  | BMB*  |
| 2             | 2.65            | Chloride  | 1.892        | 0.229          | 17.47         | 0.147  | BMB^  |
| 3             | 3.32            | Nitrite   | 1.586        | 0.259          | 19.78         | 0.090  | BMB^  |
| 4             | 4.37            | Bromide   | 0.244        | 0.043          | 3.25          | 0.080  | BMB** |
| 5             | 5.27            | Nitrate   | 1.144        | 0.279          | 21.26         | 0.076  | BMB^  |
| 6             | 8.65            | Sulfate   | 0.507        | 0.177          | 13.51         | 0.180  | BMB^  |
| <b>Total:</b> |                 |           | 8.233        | 1.311          | 100.00        | 0.742  |       |

After Initials

*MB*

DA1125110

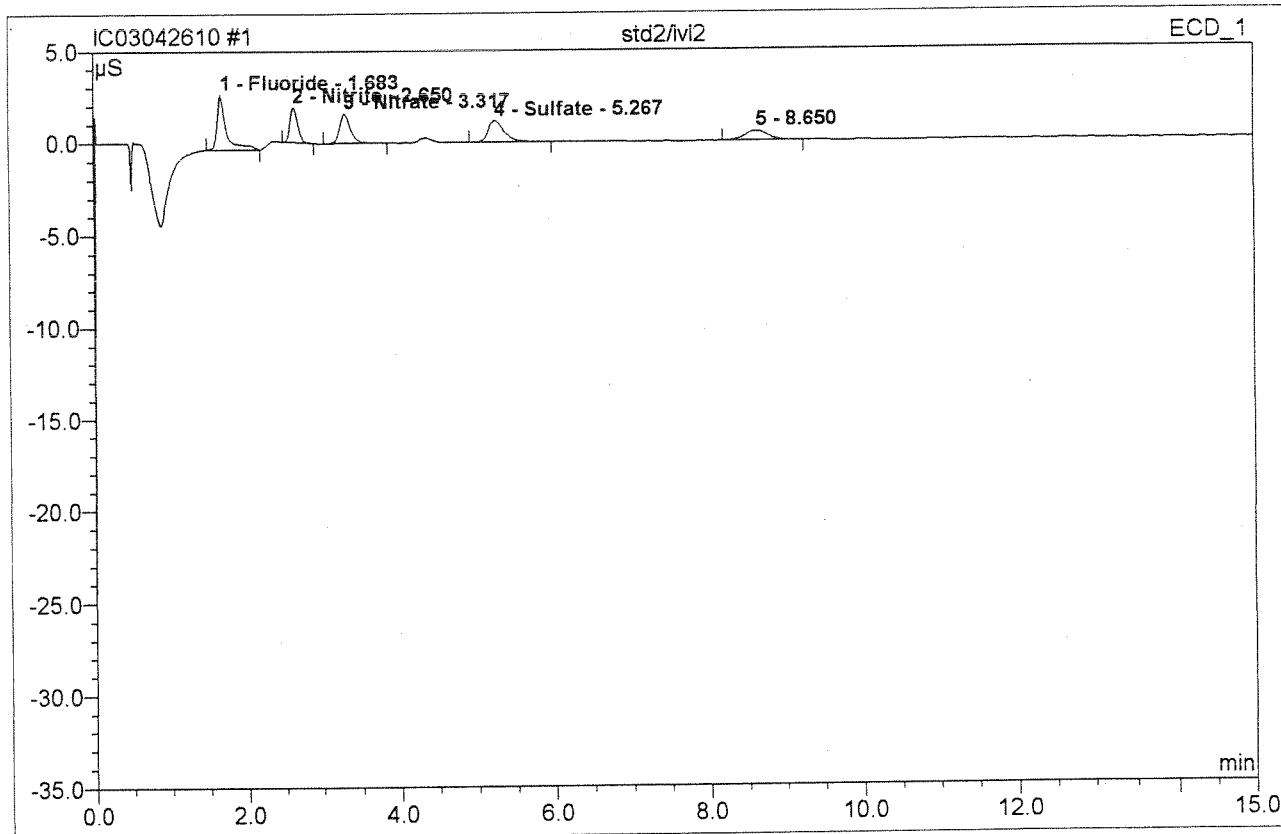
APR 26 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/Integration

Method: EPA 8210 and 8211  
Integration: Standard

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>1 std2/lvl2</b> |                |                   |        |
| Sample Name:       | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:       | 1              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 15.00          | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.68             | Fluoride  | 2.953        | 0.421          | 30.83          | 0.200  | BMB  |
| 2             | 2.65             | Nitrite   | 1.892        | 0.229          | 16.78          | 0.100  | BMB  |
| 3             | 3.32             | Nitrate   | 1.586        | 0.259          | 19.00          | 0.100  | BMB  |
| 4             | 5.27             | Sulfate   | 1.144        | 0.279          | 20.42          | 0.200  | BMB  |
| 5             | 8.65             | n.a.      | 0.507        | 0.177          | 12.97          | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 8.081        | 1.366          | 100.00         | 0.600  |      |

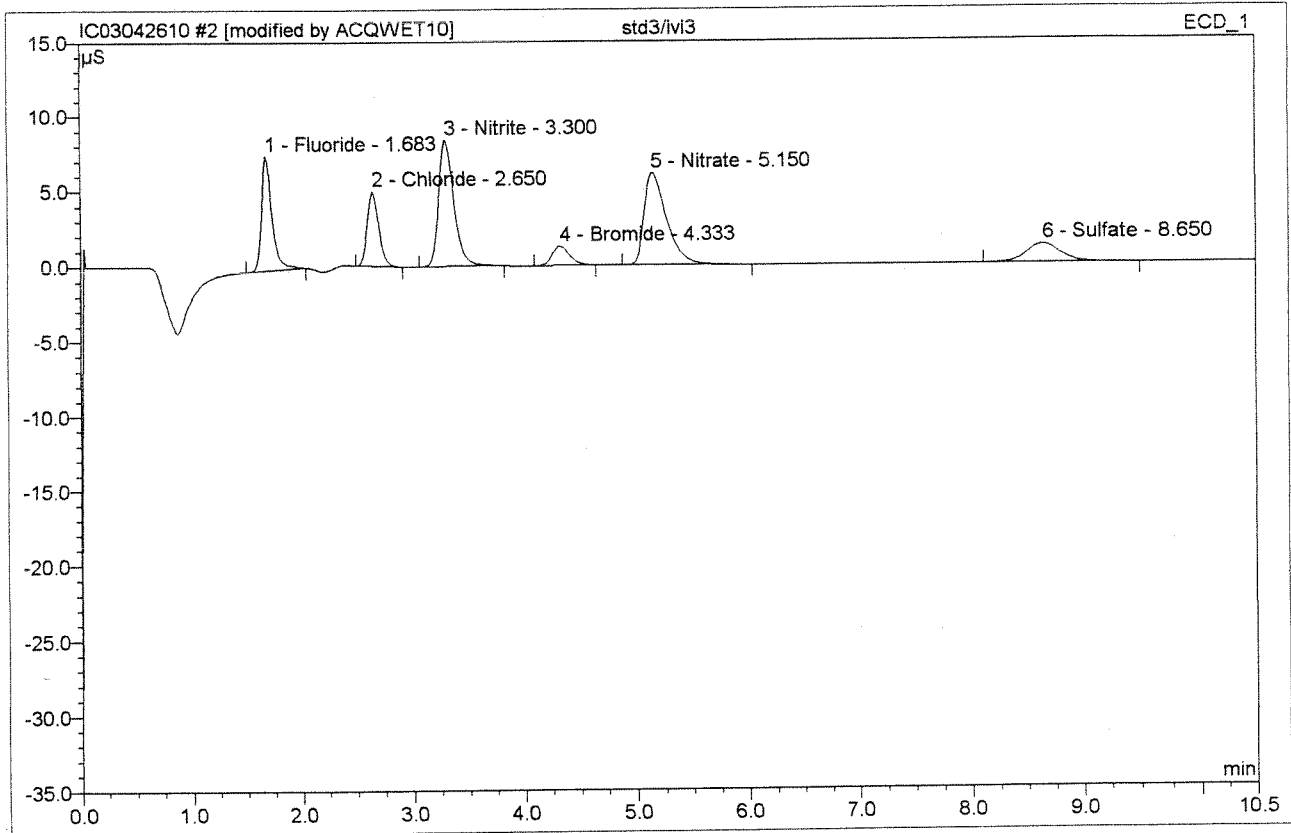
Before

APR 26 2010



## 2 std3/lv13

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std3/lv13      | Injection Volume: | 200.0  |
| Vial Number:     | 2              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 7.622        | 0.844          | 17.37         | 0.441  | BMB* |
| 2             | 2.65            | Chloride  | 4.937        | 0.589          | 12.12         | 0.378  | BMB  |
| 3             | 3.30            | Nitrite   | 8.365        | 1.329          | 27.34         | 0.460  | BMB* |
| 4             | 4.33            | Bromide   | 1.271        | 0.229          | 4.72          | 0.428  | BMB* |
| 5             | 5.15            | Nitrate   | 6.087        | 1.425          | 29.30         | 0.387  | BMB  |
| 6             | 8.65            | Sulfate   | 1.253        | 0.445          | 9.16          | 0.452  | BMB  |
| <b>Total:</b> |                 |           | 29.536       | 4.862          | 100.00        | 2.547  |      |

Anal  
Initials: AB

6/11/10

APR 25 2010

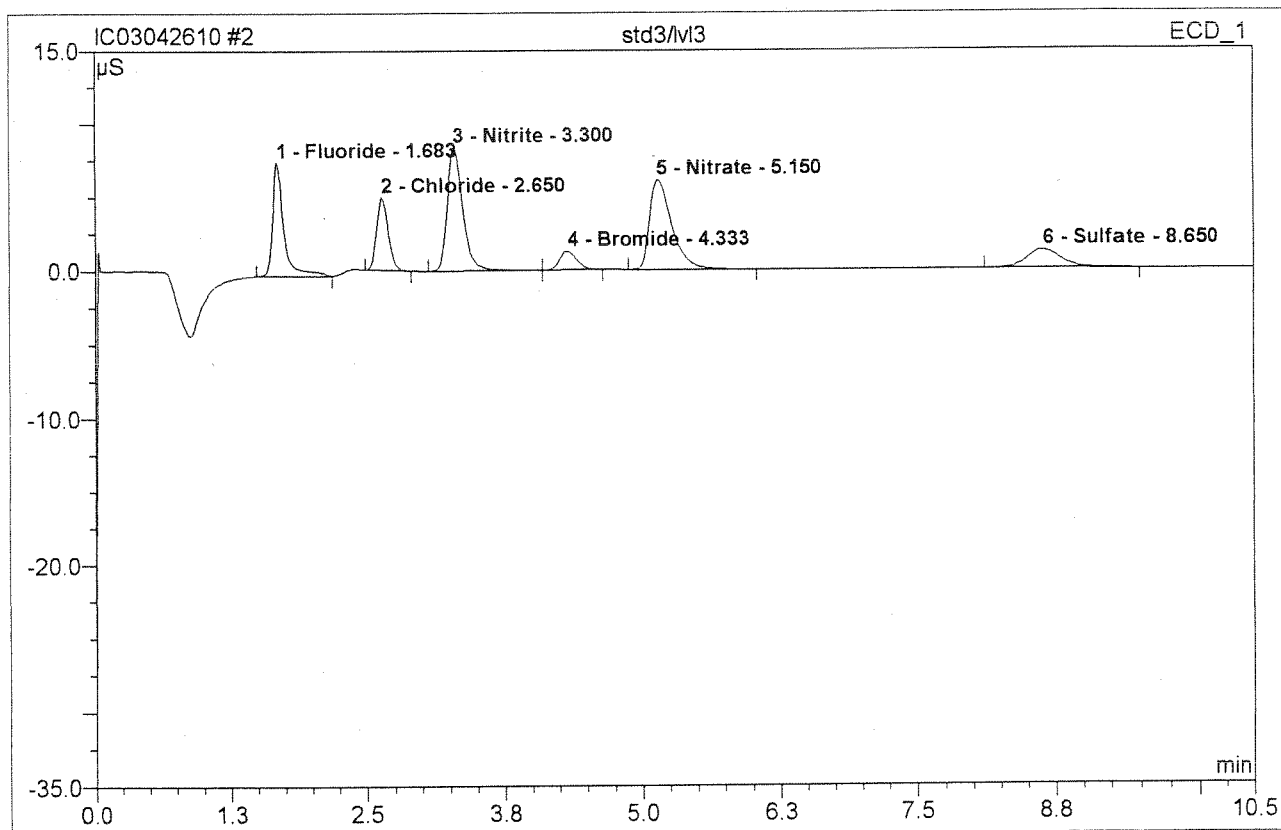
Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/integration

136

**2 std3/lvl3**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std3/lvl3      | Injection Volume: | 200.0  |
| Vial Number:     | 2              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 7.720        | 0.949          | 19.04         | 0.510  | BMB  |
| 2             | 2.65            | Chloride  | 4.937        | 0.589          | 11.82         | 0.502  | BMB  |
| 3             | 3.30            | Nitrite   | 8.377        | 1.347          | 27.02         | 0.501  | BMB  |
| 4             | 4.33            | Bromide   | 1.271        | 0.229          | 4.60          | 0.501  | bMB  |
| 5             | 5.15            | Nitrate   | 6.087        | 1.425          | 28.59         | 0.500  | BMB  |
| 6             | 8.65            | Sulfate   | 1.253        | 0.445          | 8.93          | 0.500  | BMB  |
| <b>Total:</b> |                 |           | 29.644       | 4.984          | 100.00        | 3.015  |      |

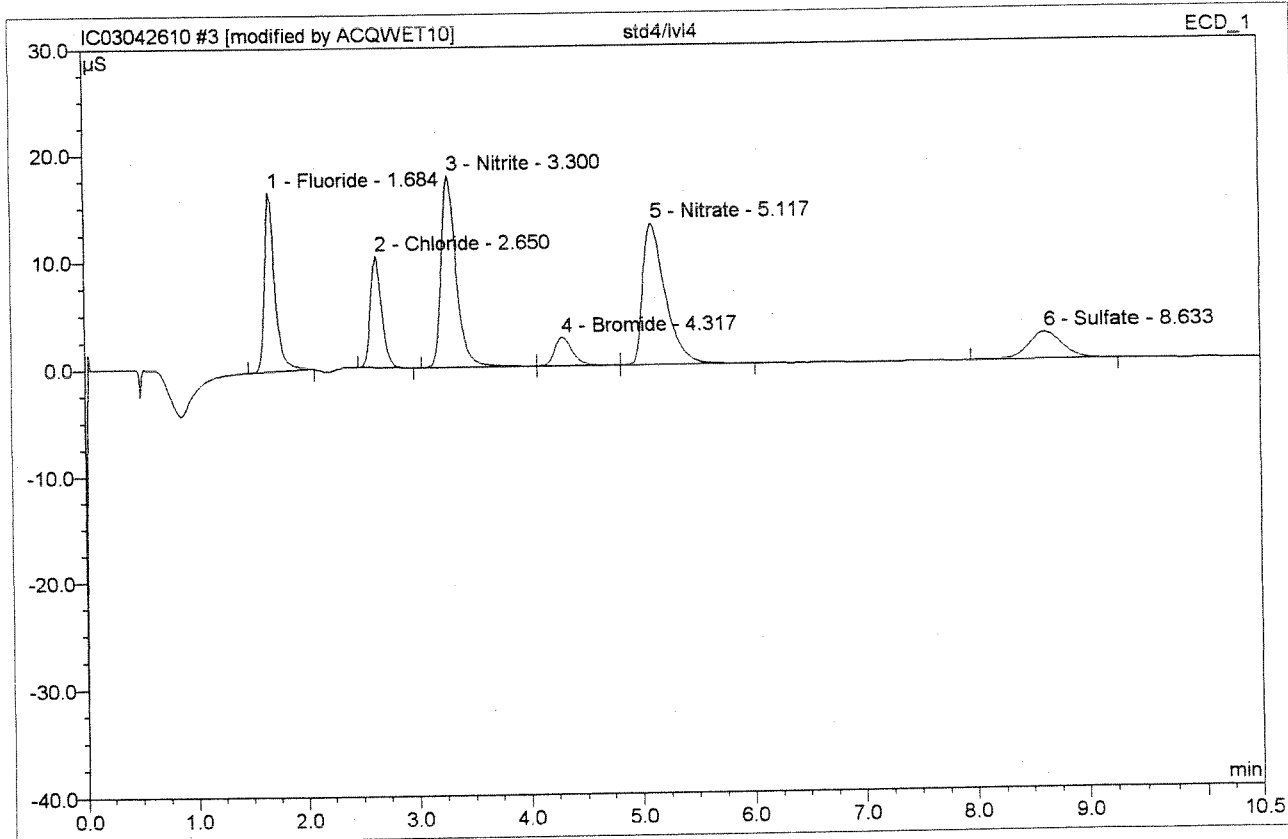
Before

APR 26 2010

default/Integration

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Version 6.50 SP1 Build 956

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>3 std4/lvl4</b> |                |                   |        |
| Sample Name:       | std4/lvl4      | Injection Volume: | 200.0  |
| Vial Number:       | 3              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 16.676       | 1.811          | 17.64         | 0.947  | BMB* |
| 2             | 2.65            | Chloride  | 10.365       | 1.223          | 11.91         | 0.784  | BMB  |
| 3             | 3.30            | Nitrite   | 17.874       | 2.814          | 27.40         | 0.975  | BMB  |
| 4             | 4.32            | Bromide   | 2.661        | 0.487          | 4.74          | 0.908  | bMB  |
| 5             | 5.12            | Nitrate   | 13.149       | 3.046          | 29.66         | 0.827  | bMB  |
| 6             | 8.63            | Sulfate   | 2.522        | 0.888          | 8.65          | 0.903  | BMB  |
| <b>Total:</b> |                 |           | 63.248       | 10.270         | 100.00        | 5.343  |      |

After Initials

*AP*

4/26/2010

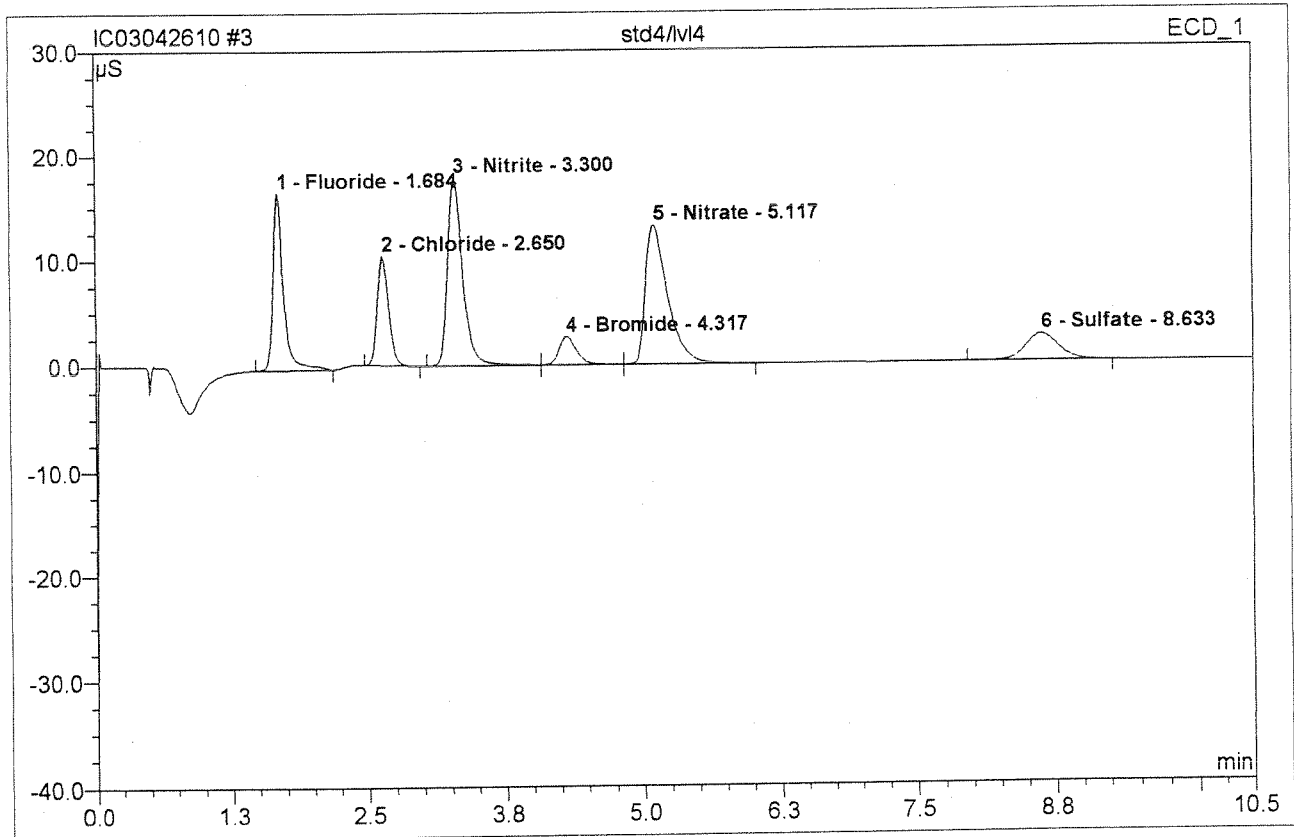
APR 26 2010

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default/Integration

**3 std4/lvl4**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std4/lvl4      | Injection Volume: | 200.0  |
| Vial Number:     | 3              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 16.774       | 1.915          | 18.46         | 1.007  | BMB  |
| 2             | 2.65            | Chloride  | 10.365       | 1.223          | 11.79         | 1.009  | BMB  |
| 3             | 3.30            | Nitrite   | 17.874       | 2.814          | 27.13         | 1.009  | BMB  |
| 4             | 4.32            | Bromide   | 2.661        | 0.487          | 4.69          | 1.012  | bMB  |
| 5             | 5.12            | Nitrate   | 13.149       | 3.046          | 29.36         | 1.014  | bMB  |
| 6             | 8.63            | Sulfate   | 2.522        | 0.888          | 8.56          | 1.000  | BMB  |
| <b>Total:</b> |                 |           | 63.346       | 10.374         | 100.00        | 6.051  |      |

Before

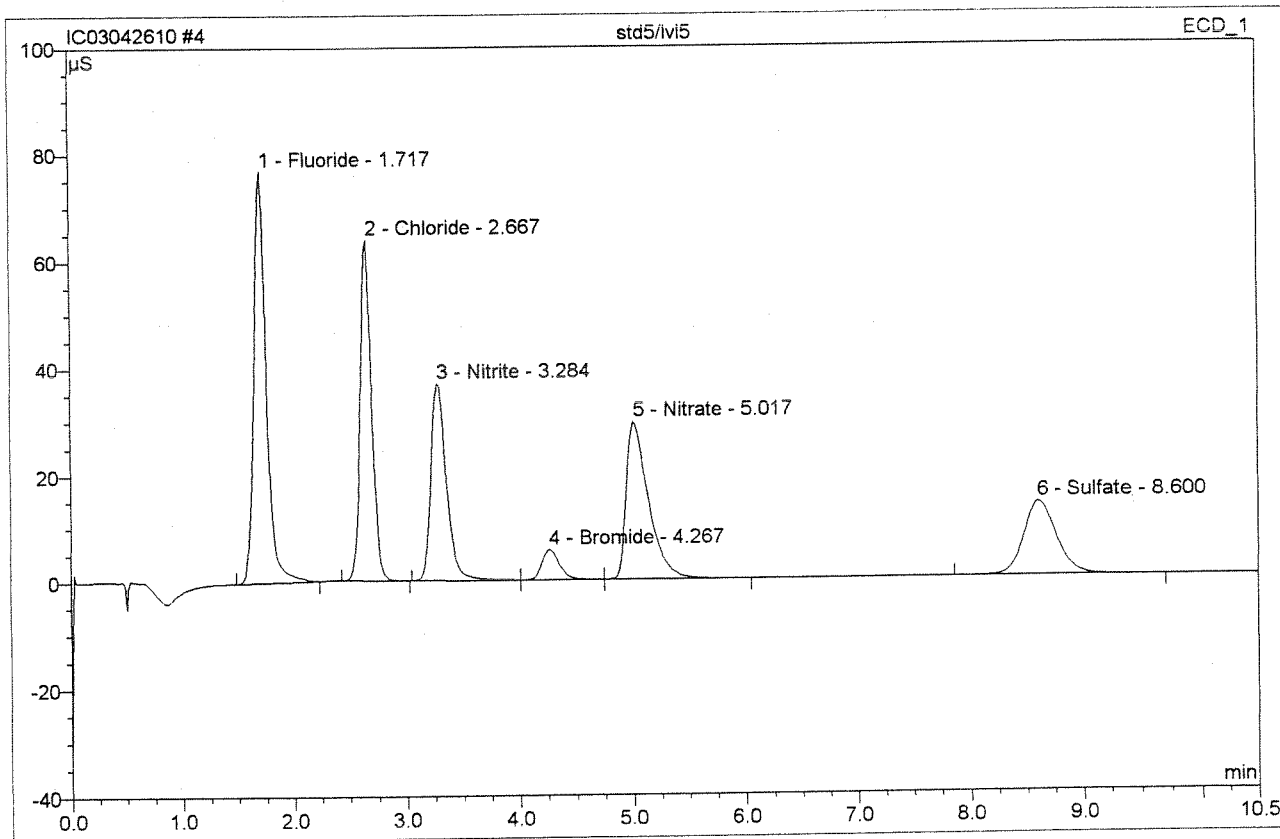
APR 26 2010

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Version 6.50 SP1 Build 956

default/Integration

**4 std5/lv15**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lv15      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.086  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 4.791  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.030  | BMB  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 1.879  | bMB  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 1.833  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 4.795  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 20.415 |      |

Alter Initials MS

449188110

default/Integration

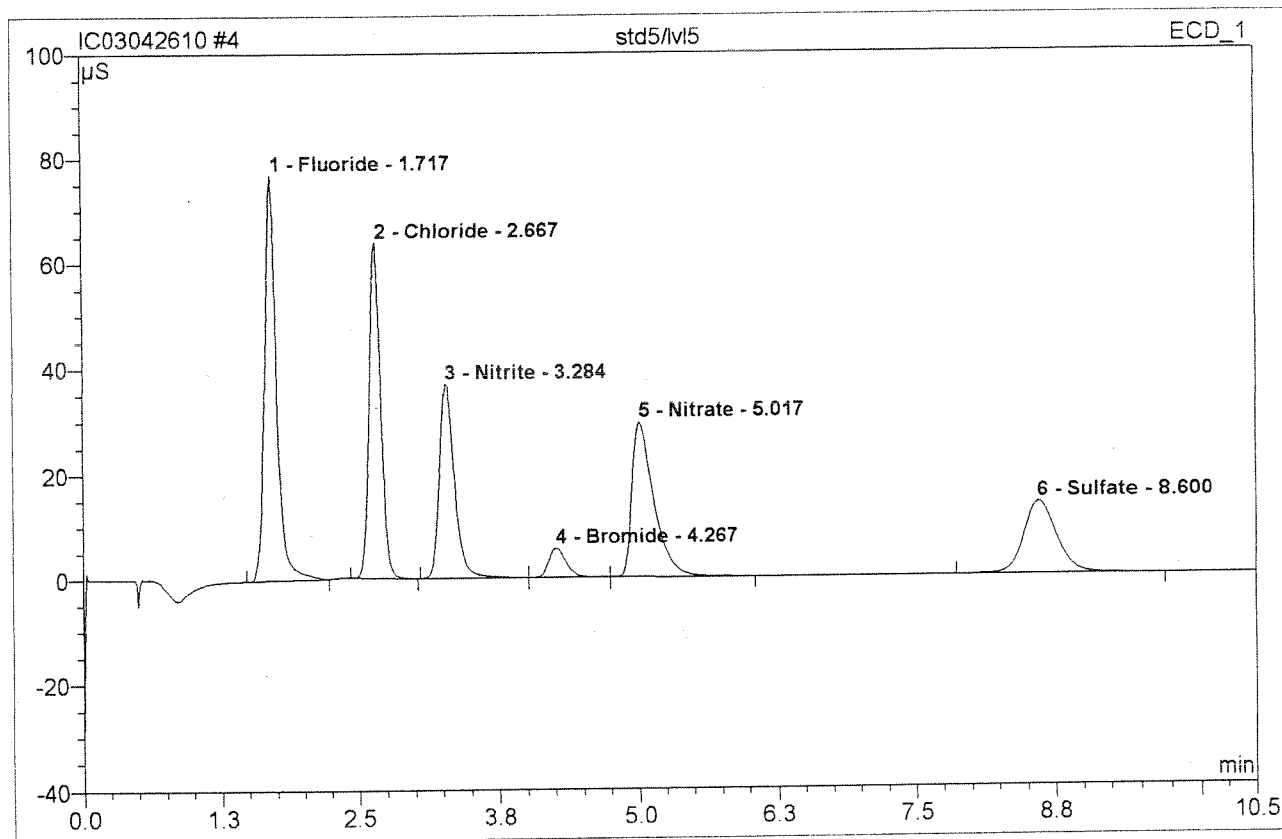
APR 25 2010

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Integration Report Not Found  
 Integration Report Found  
Operator \_\_\_\_\_

### 4 std5/lvl5

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lvl5      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.005  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 5.047  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.024  | BMB  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 2.022  | bMB  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 2.054  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 5.014  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 21.166 |      |

Before

APR 26 2010

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Version 6.50 SP1 Build 956

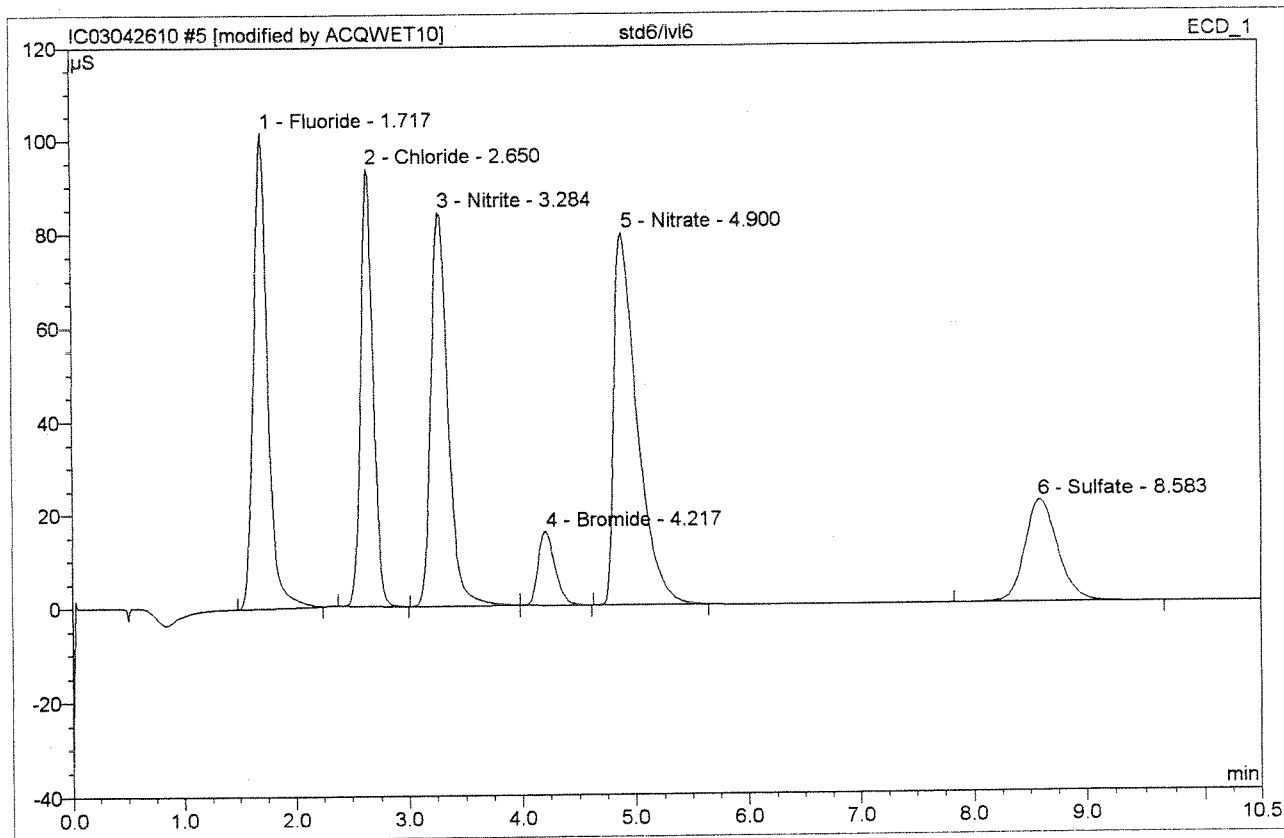
default/Integration



**5 std6/lvl6**

Sample Name: **std6/lvl6**  
 Vial Number: **5**  
 Sample Type: **standard**  
 Control Program: **epa300**  
 Quantif. Method: **epa300**  
 Recording Time: **4/26/2010 9:51**  
 Run Time (min): **10.50**

Injection Volume: **200.0**  
 Channel: **ECD\_1**  
 Wavelength: **n.a.**  
 Bandwidth: **n.a.**  
 Dilution Factor: **1.0000**  
 Sample Weight: **1.0000**  
 Sample Amount: **1.0000**



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 101.686      | 14.494         | 20.88         | 7.575  | BMB* |
| 2             | 2.65            | Chloride  | 93.434       | 11.601         | 16.71         | 7.439  | BMB* |
| 3             | 3.28            | Nitrite   | 84.060       | 14.428         | 20.79         | 4.997  | BMB  |
| 4             | 4.22            | Bromide   | 15.785       | 2.719          | 3.92          | 5.074  | bMB  |
| 5             | 4.90            | Nitrate   | 79.649       | 18.837         | 27.14         | 5.113  | BMB* |
| 6             | 8.58            | Sulfate   | 21.861       | 7.333          | 10.56         | 7.452  | BMB  |
| <b>Total:</b> |                 |           | 396.475      | 69.412         | 100.00        | 37.650 |      |

After  
Initials MB

61-912810

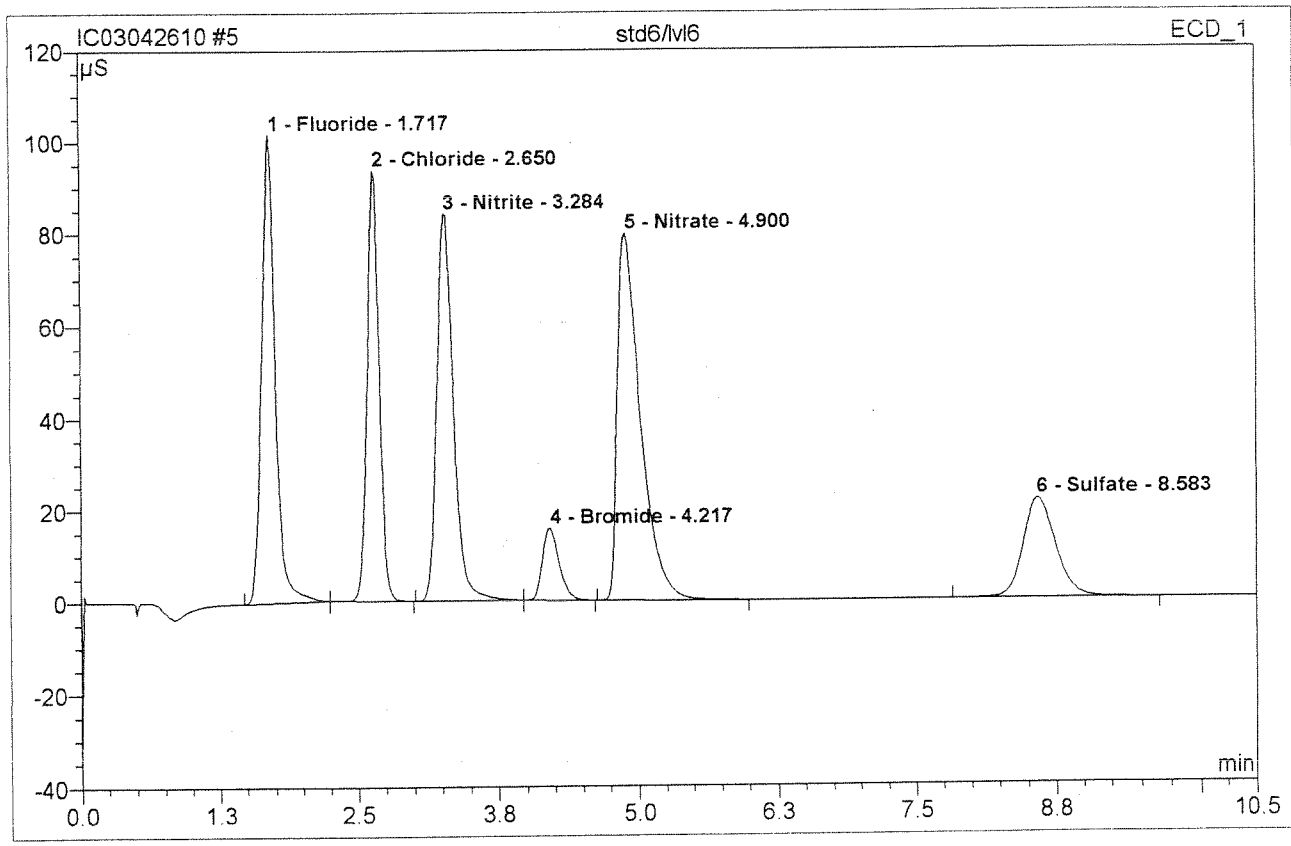
default/Integration

APR 26 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

Integration Method Not Found  
Integration Method Not Found

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>5 std6/lvl6</b> |                |                   |        |
| Sample Name:       | std6/lvl6      | Injection Volume: | 200.0  |
| Vial Number:       | 5              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:51 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |

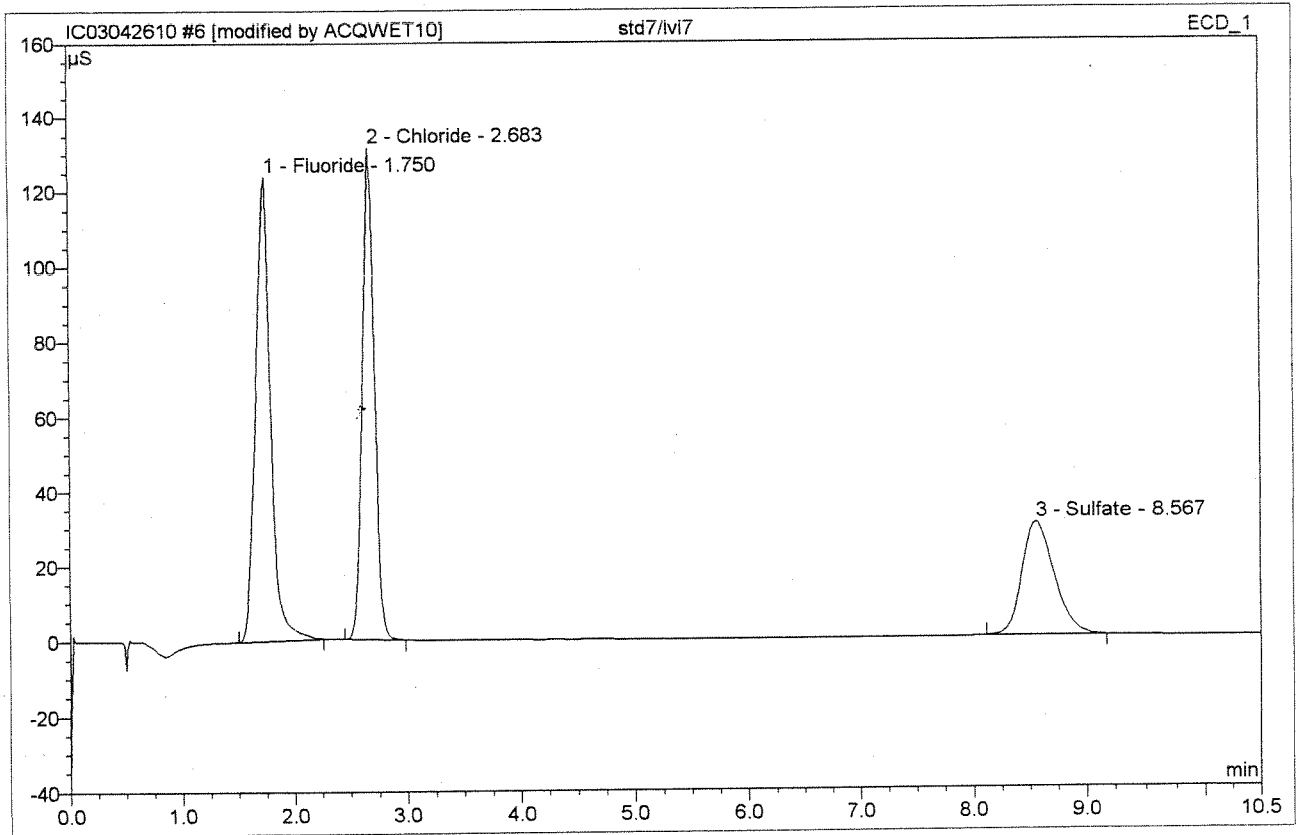


| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 101.686      | 14.494         | 20.85         | 7.486  | BMb  |
| 2             | 2.65            | Chloride  | 93.503       | 11.647         | 16.75         | 7.613  | bMB  |
| 3             | 3.28            | Nitrite   | 84.060       | 14.428         | 20.76         | 4.997  | BMb  |
| 4             | 4.22            | Bromide   | 15.785       | 2.719          | 3.91          | 5.074  | bMB  |
| 5             | 4.90            | Nitrate   | 79.672       | 18.892         | 27.18         | 5.115  | BMb  |
| 6             | 8.58            | Sulfate   | 21.861       | 7.333          | 10.55         | 7.591  | BMb  |
| <b>Total:</b> |                 |           | 396.568      | 69.512         | 100.00        | 37.876 |      |

Before

APR 26 2010

|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lvl7</b> |                 |                   |        |
| Sample Name:       | std7/lvl7       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.75             | Fluoride  | 123.905      | 18.962         | 42.30          | 9.910  | BMB* |
| 2             | 2.68             | Chloride  | 131.265      | 15.874         | 35.41          | 10.179 | BMB* |
| 3             | 8.57             | Sulfate   | 30.278       | 9.990          | 22.29          | 10.151 | BMB* |
| <b>Total:</b> |                  |           | 285.448      | 44.826         | 100.00         | 30.240 |      |

After Initials MB

5-11-10

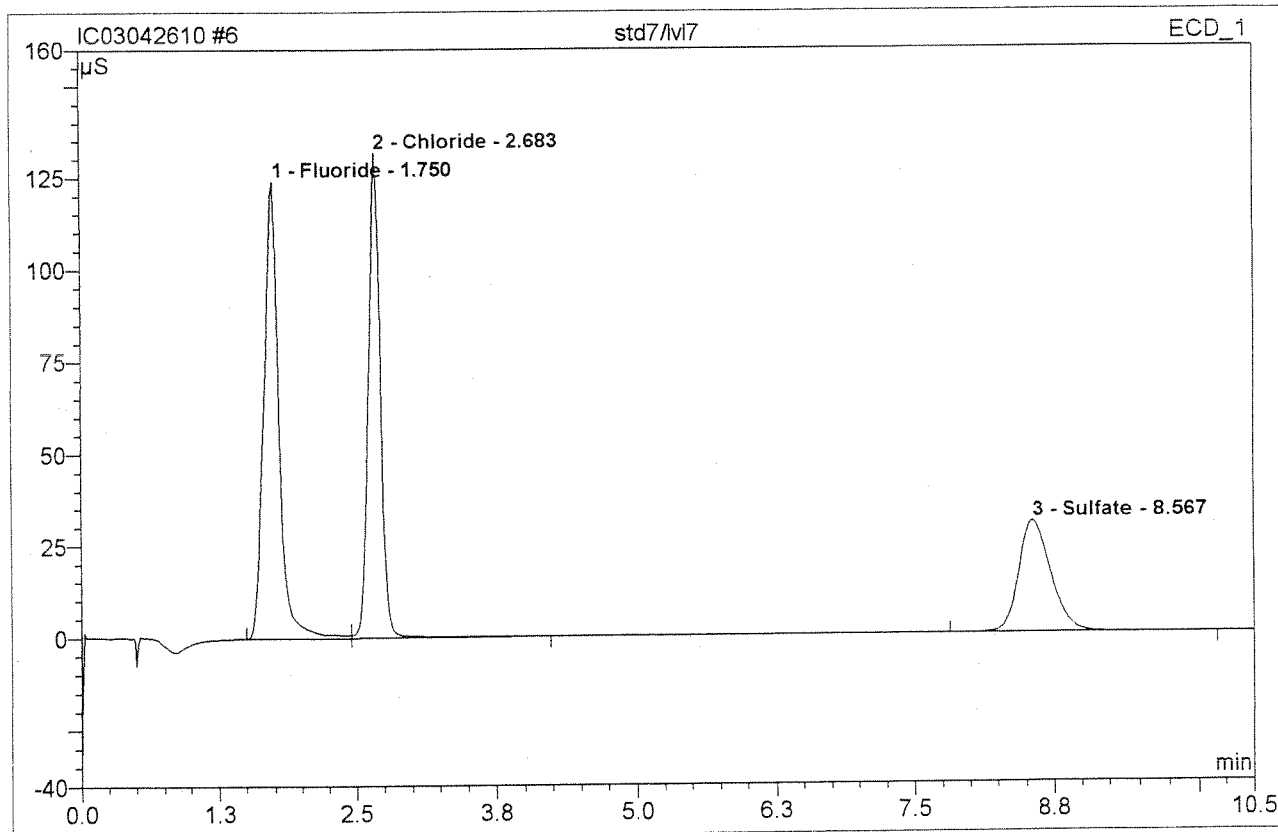
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Version 6.50 SP1 Build 956

|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lv17</b> |                 |                   |        |
| Sample Name:       | std7/lv17       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |



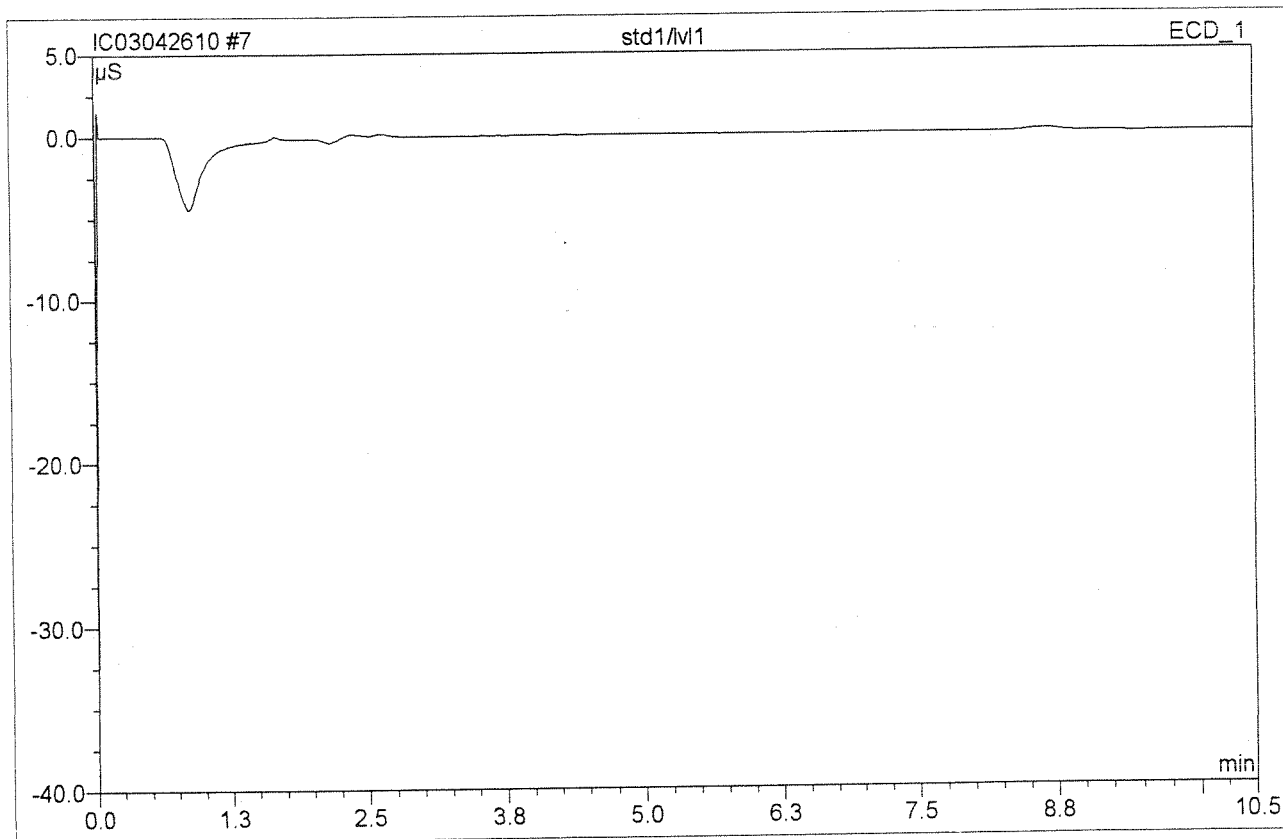
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.75            | Fluoride  | 124.185      | 19.437         | 42.28         | 10.022 | BM   |
| 2             | 2.68            | Chloride  | 131.836      | 16.307         | 35.47         | 10.300 | MB   |
| 3             | 8.57            | Sulfate   | 30.454       | 10.233         | 22.26         | 10.259 | BMB  |
| <b>Total:</b> |                 |           | 286.475      | 45.977         | 100.00        | 30.581 |      |

Before

APR 26 2010

**7 std1/lvl1**

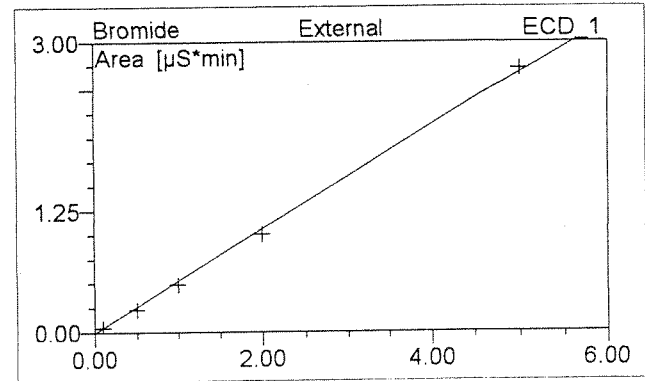
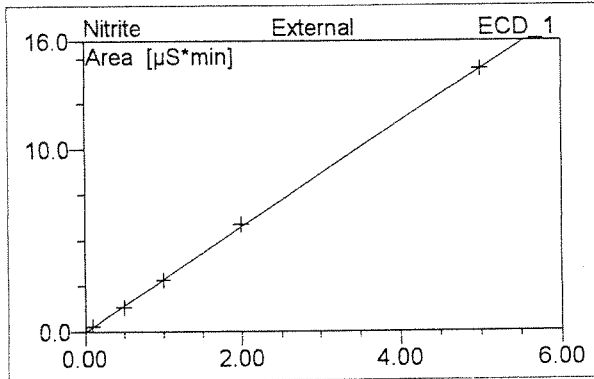
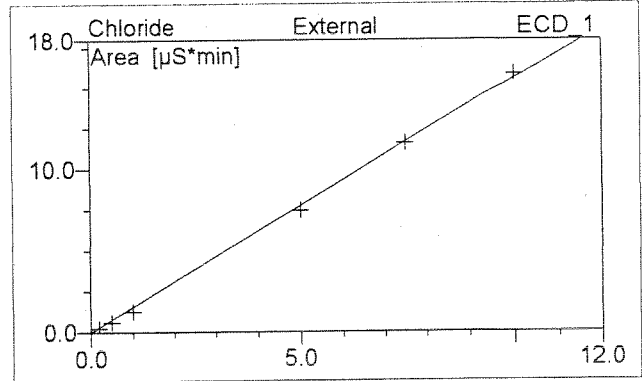
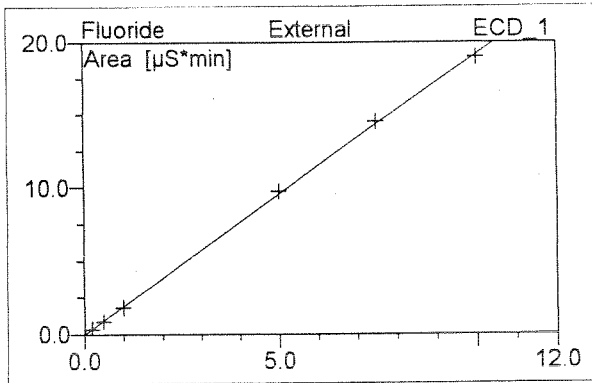
|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | std1/lvl1       | Injection Volume: | 200.0  |
| Vial Number:     | 7               | Channel:          | ECD_1  |
| Sample Type:     | standard        | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 10:17 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

6/4/10/10

|  |                                |
|--|--------------------------------|
| <b>7 std1/lvl1</b>                     |                                |
| Sample Name: <b>std1/lvl1</b>          | Injection Volume: <b>200.0</b> |
| Vial Number: <b>7</b>                  | Channel: <b>ECD_1</b>          |
| Sample Type: <b>standard</b>           | Wavelength: <b>n.a.</b>        |
| Control Program: <b>epa300</b>         | Bandwidth: <b>n.a.</b>         |
| Quantif. Method: <b>epa300</b>         | Dilution Factor: <b>1.0000</b> |
| Recording Time: <b>4/26/2010 10:17</b> | Sample Weight: <b>1.0000</b>   |
| Run Time (min): <b>10.50</b>           | Sample Amount: <b>1.0000</b>   |



| No.      | Ret.Time<br>min | Peak Name | Cal.Type | Points | Corr.Coeff.<br>% | Offset | Slope | Curve |
|----------|-----------------|-----------|----------|--------|------------------|--------|-------|-------|
| Average: |                 |           |          |        | n.a.             | n.a.   | n.a.  | n.a.  |

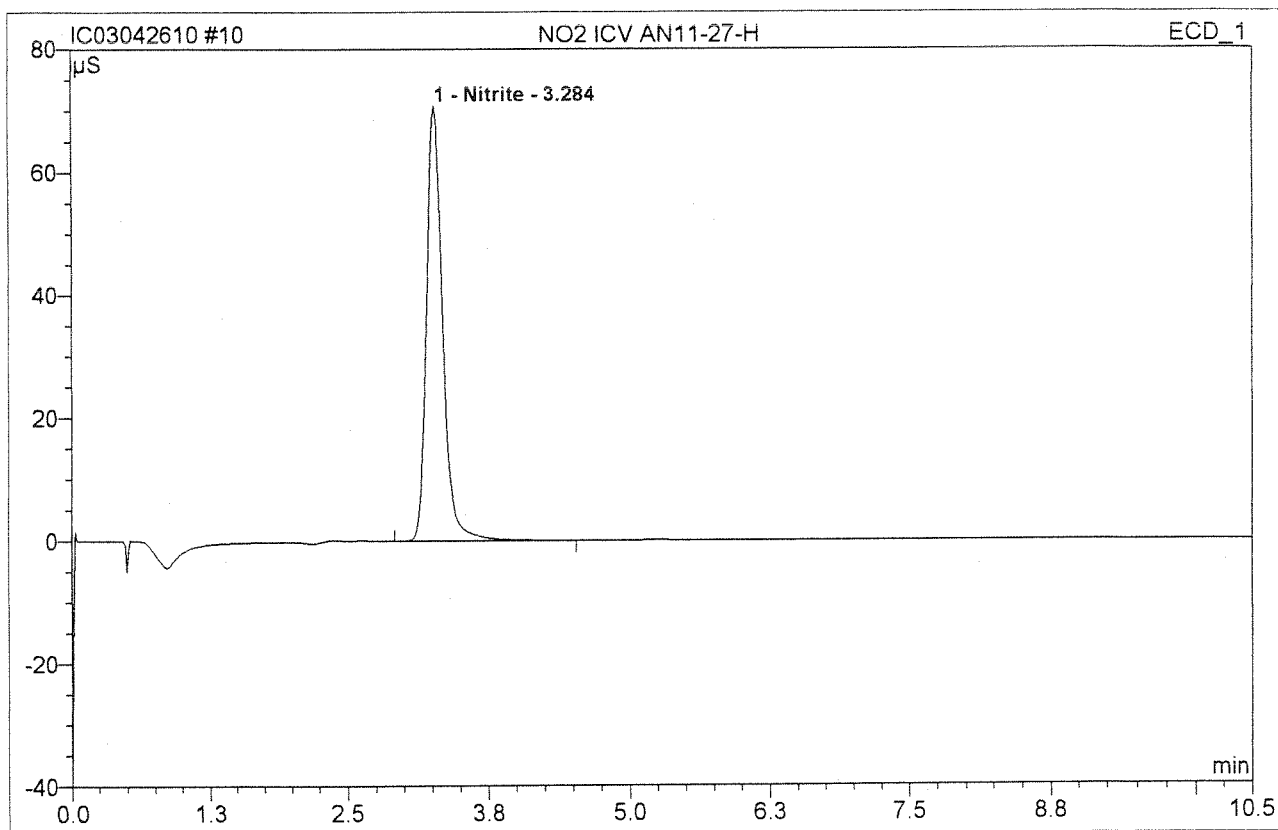
*6/24/10*



# 10 NO2 ICV AN11-27-H

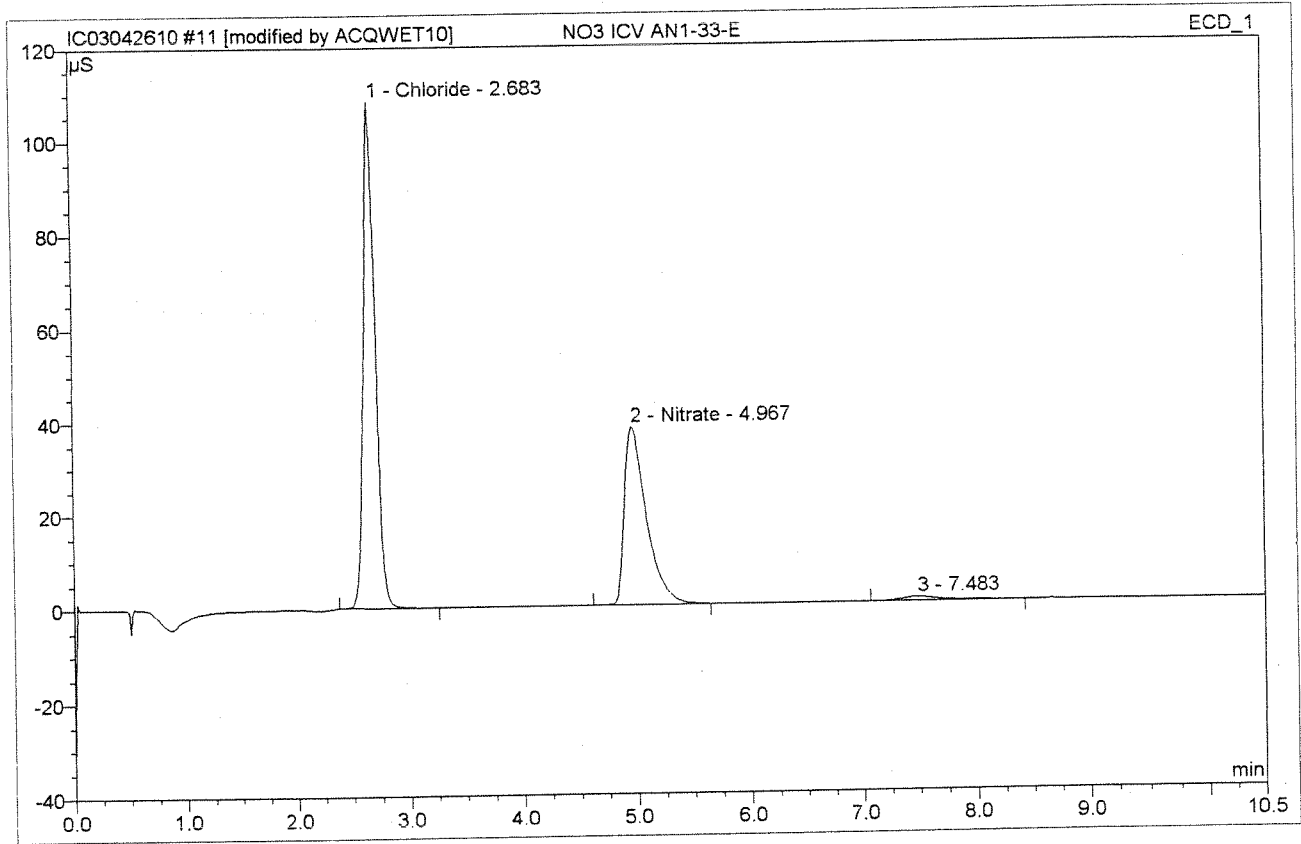
## NO2 ICV

|                  |                   |                   |         |
|------------------|-------------------|-------------------|---------|
| Sample Name:     | NO2 ICV AN11-27-H | Injection Volume: | 200.0   |
| Vial Number:     | 10                | Channel:          | ECD_1   |
| Sample Type:     | unknown           | Wavelength:       | n.a.    |
| Control Program: | epa300            | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300            | Dilution Factor:  | 25.0000 |
| Recording Time:  | 4/26/2010 11:05   | Sample Weight:    | 1.0000  |
| Run Time (min):  | 10.50             | Sample Amount:    | 1.0000  |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount      | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-------------|------|
| 1             | 3.28            | Nitrite   | 70.856       | 11.827         | 100.00        | 102.405102? | BMB  |
| <b>Total:</b> |                 |           | 70.856       | 11.827         | 100.00        | 102.405     |      |

|                            |                  |                   |         |
|----------------------------|------------------|-------------------|---------|
| <b>11 NO3 ICV AN1-33-E</b> |                  |                   |         |
| <b>NO3 ICV</b>             |                  |                   |         |
| Sample Name:               | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:               | 11               | Channel:          | ECD_1   |
| Sample Type:               | unknown          | Wavelength:       | n.a.    |
| Control Program:           | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method:           | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:            | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):            | 10.50            | Sample Amount:    | 1.0000  |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount     | Type |
|---------------|--------------|-----------|-----------|-------------|------------|------------|------|
| 1             | 2.68         | Chloride  | 108.172   | 12.864      | 59.17      | 82.484     | BMB* |
| 2             | 4.97         | Nitrate   | 38.103    | 8.551       | 39.33      | 23.211110% | BMB* |
| 3             | 7.48         | n.a.      | 0.823     | 0.326       | 1.50       | n.a.       | BMB  |
| <b>Total:</b> |              |           | 147.098   | 21.741      | 100.00     | 105.695    |      |

After  
Injection MB

4/26/10

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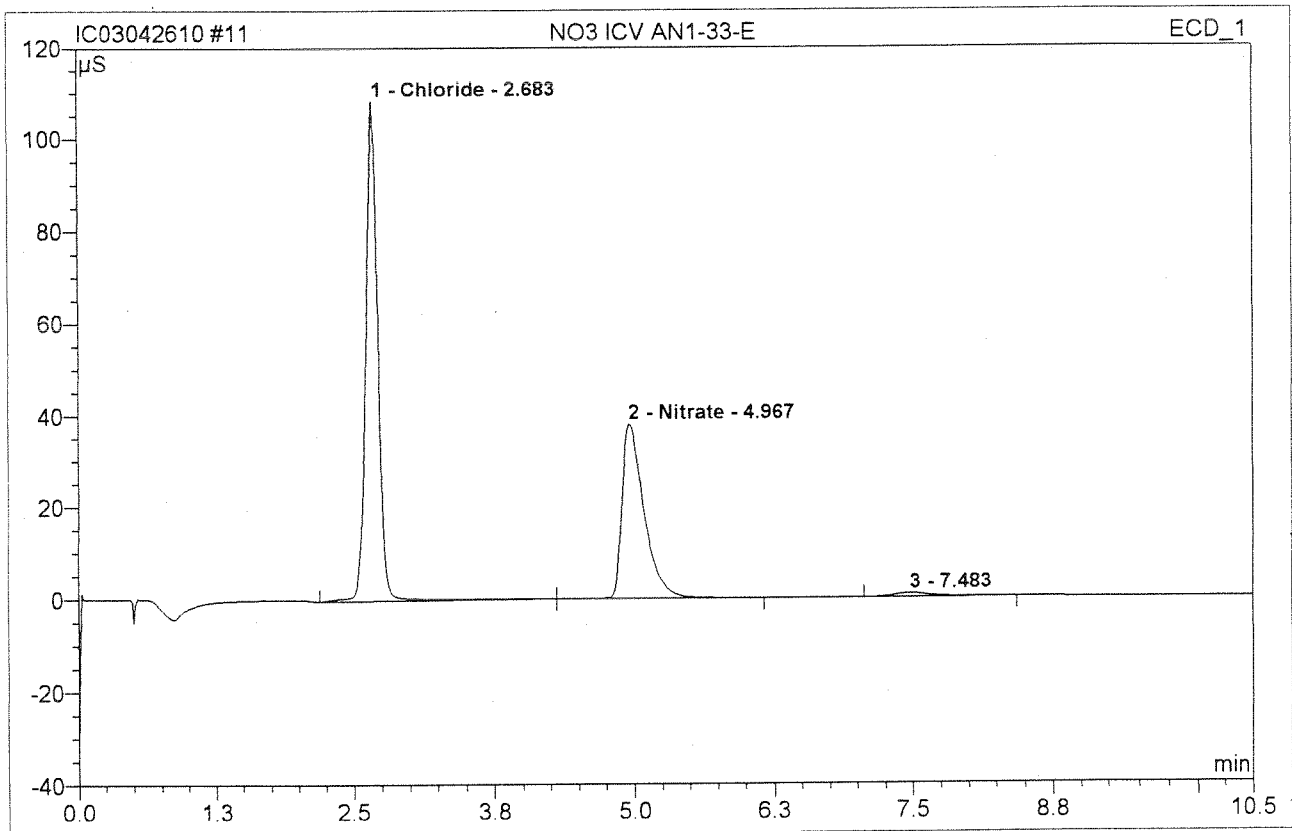
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# 11 NO3 ICV AN1-33-E

## NO3 ICV

|                  |                  |                   |         |
|------------------|------------------|-------------------|---------|
| Sample Name:     | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:     | 11               | Channel:          | ECD_1   |
| Sample Type:     | unknown          | Wavelength:       | n.a.    |
| Control Program: | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:  | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):  | 10.50            | Sample Amount:    | 1.0000  |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.68             | Chloride  | 108.576      | 13.345         | 59.83          | 85.571  | BMB  |
| 2             | 4.97             | Nitrate   | 38.156       | 8.633          | 38.70          | 23.433  | bMB  |
| 3             | 7.48             | n.a.      | 0.823        | 0.326          | 1.46           | n.a.    | BMB  |
| <b>Total:</b> |                  |           | 147.556      | 22.304         | 100.00         | 109.004 |      |

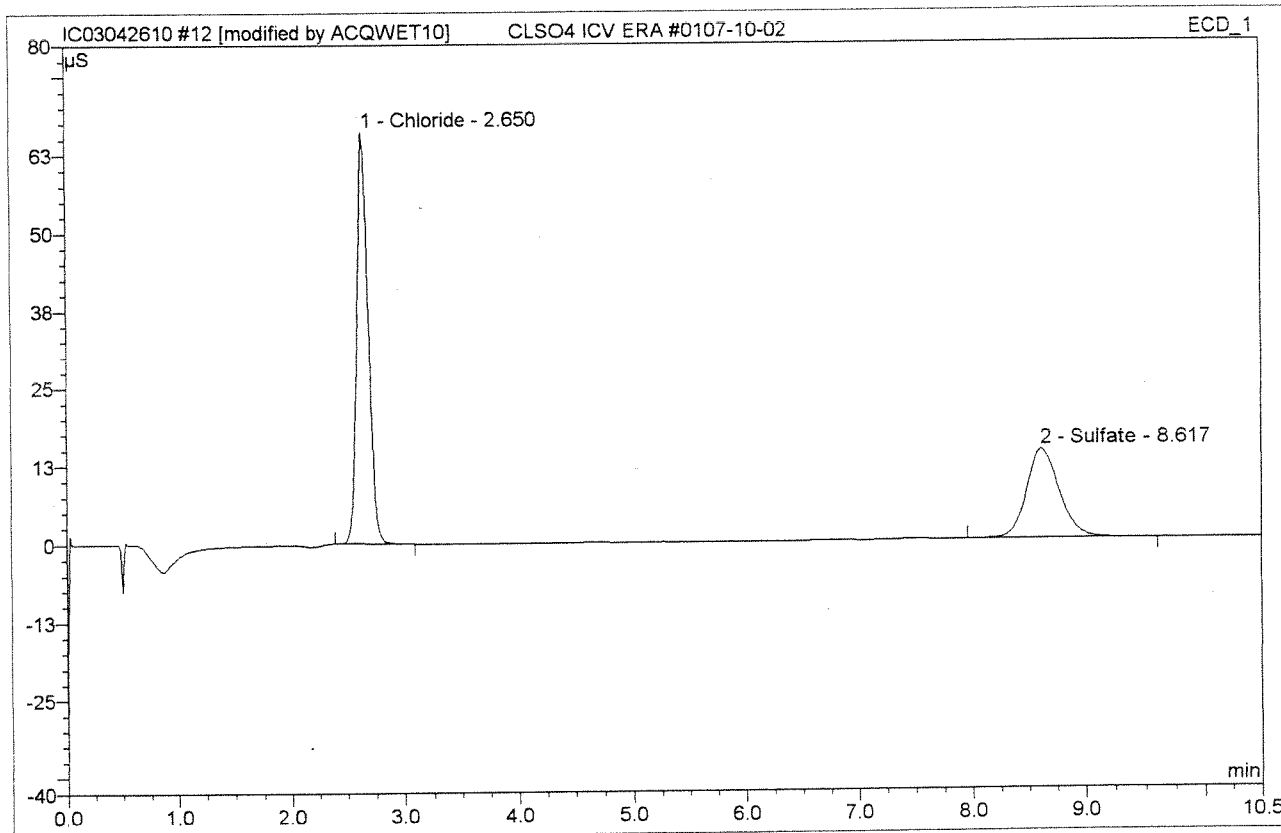
Before

APR 26 2010

### 12 CLSO4 ICV ERA #0107-10-02

#### CLSO4 ICV

|                  |                           |                   |        |
|------------------|---------------------------|-------------------|--------|
| Sample Name:     | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                        | Channel:          | ECD_1  |
| Sample Type:     | unknown                   | Wavelength:       | n.a.   |
| Control Program: | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount   | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|----------|------|
| 1             | 2.65             | Chloride  | 65.962       | 7.498          | 61.00          | 4.808762 | BMB* |
| 2             | 8.62             | Sulfate   | 14.257       | 4.794          | 39.00          | 4.871972 | BMB  |
| <b>Total:</b> |                  |           | 80.219       | 12.292         | 100.00         | 9.679    |      |

After  
Initials

AKB

3-24-10

APR 26 2010

default/Integration

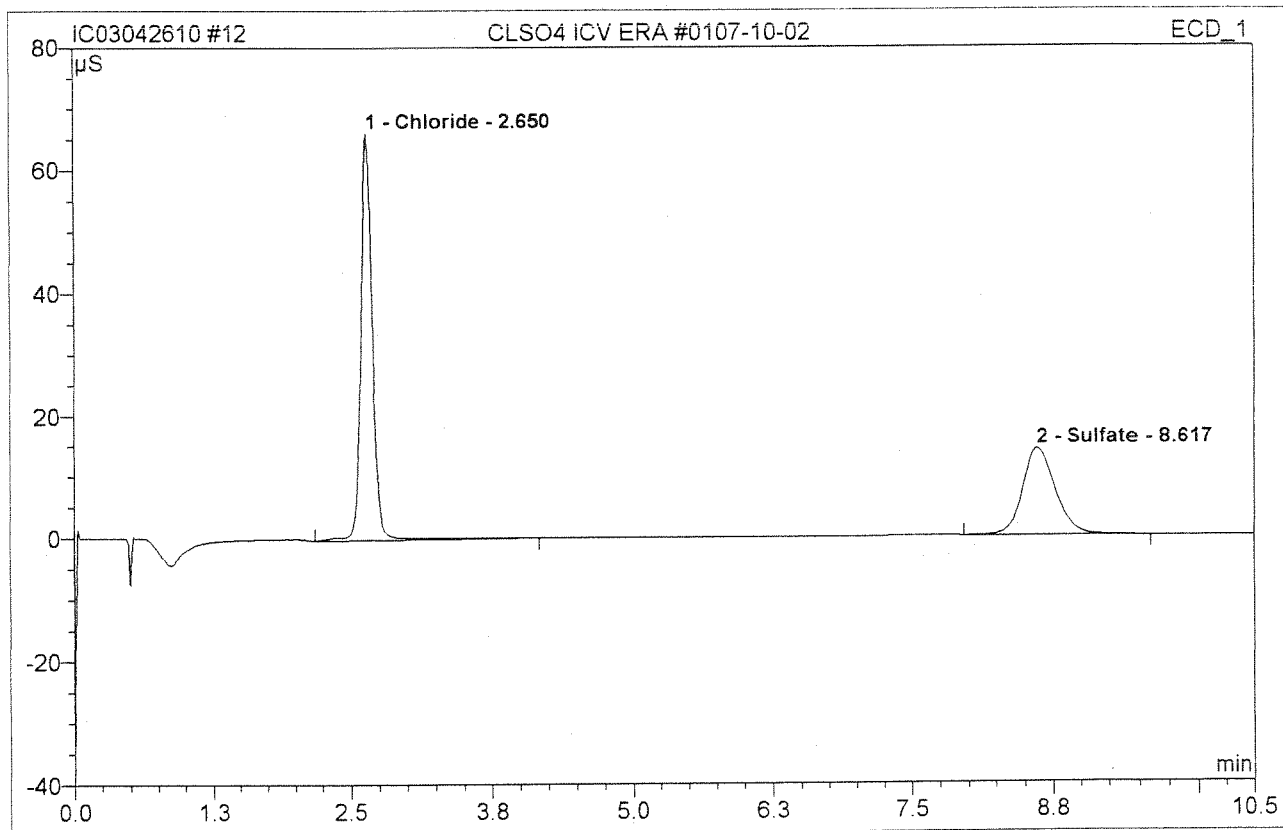
Printed on 4/26/2010 11:46 AM

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

### 12 CLSO4 ICV ERA #0107-10-02

#### CLSO4 ICV

|                  |                           |                   |        |
|------------------|---------------------------|-------------------|--------|
| Sample Name:     | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                        | Channel:          | ECD_1  |
| Sample Type:     | unknown                   | Wavelength:       | n.a.   |
| Control Program: | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.65             | Chloride  | 66.369       | 7.929          | 62.32          | 5.084  | BMB  |
| 2             | 8.62             | Sulfate   | 14.257       | 4.794          | 37.68          | 4.871  | BMB  |
| <b>Total:</b> |                  |           | 80.625       | 12.723         | 100.00         | 9.956  |      |

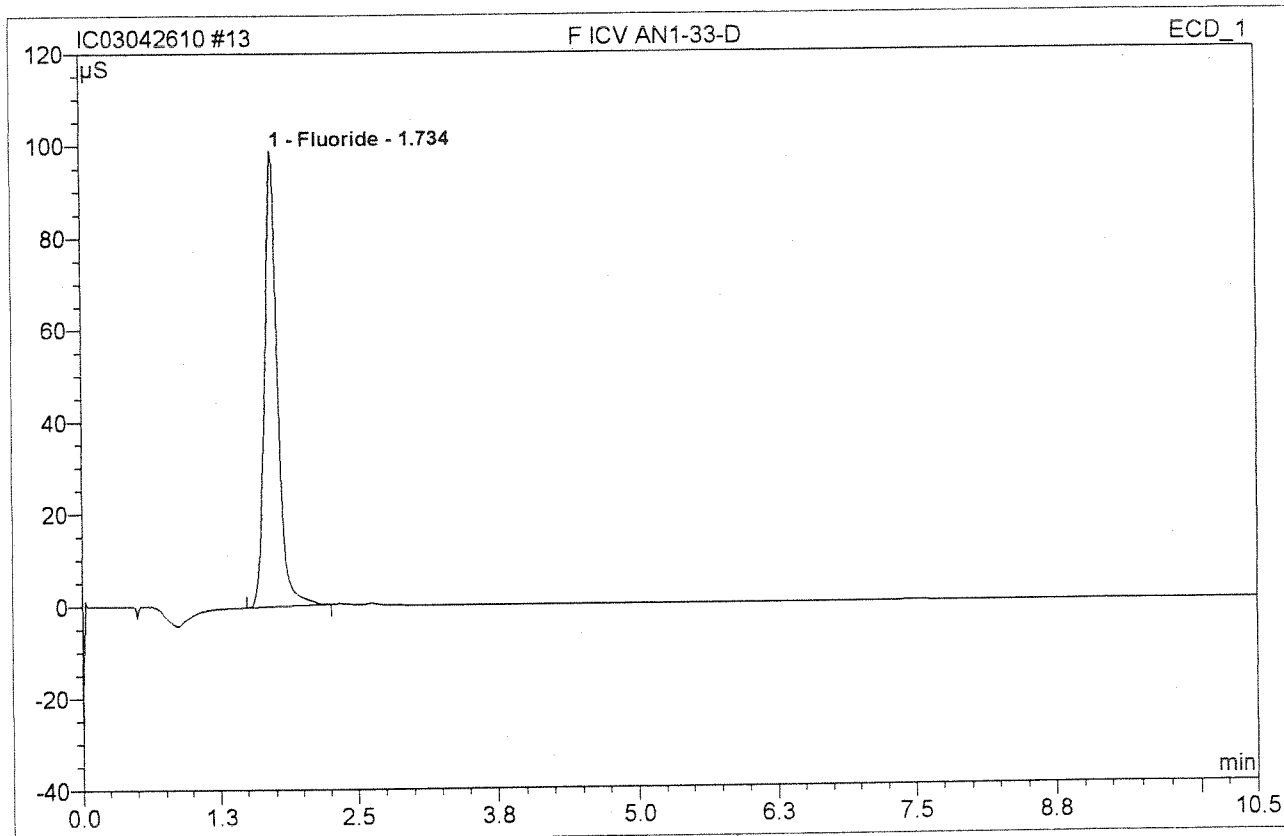
Before

APR 26 2010

### 13 F ICV AN1-33-D

#### F ICV

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | F ICV AN1-33-D  | Injection Volume: | 200.0  |
| Vial Number:     | 13              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 4/26/2010 11:43 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



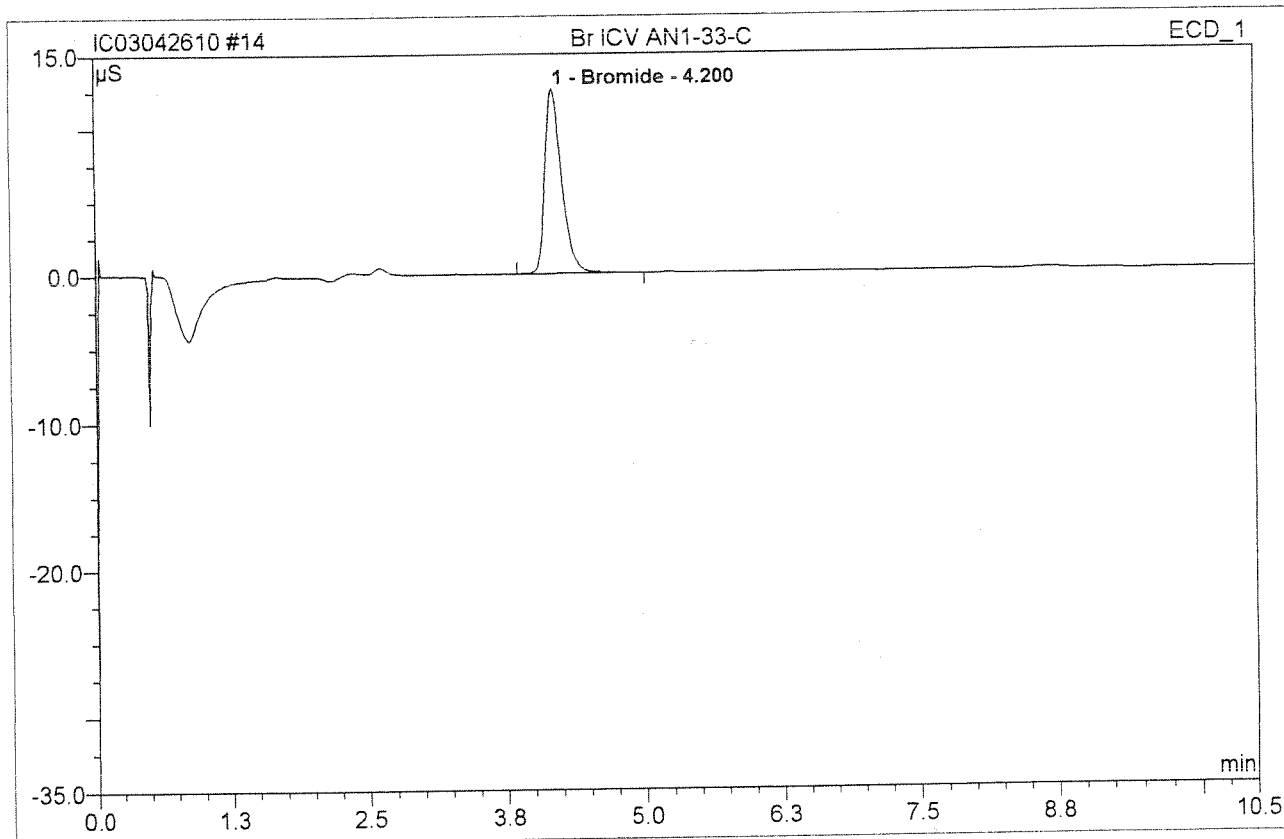
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount     | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|------------|------|
| 1             | 1.73            | Fluoride  | 98.959       | 13.315         | 100.00        | 13.9171032 | BMB  |
| <b>Total:</b> |                 |           | 98.959       | 13.315         | 100.00        | 13.917     |      |



### 14 Br ICV AN1-33-C

#### Br ICV

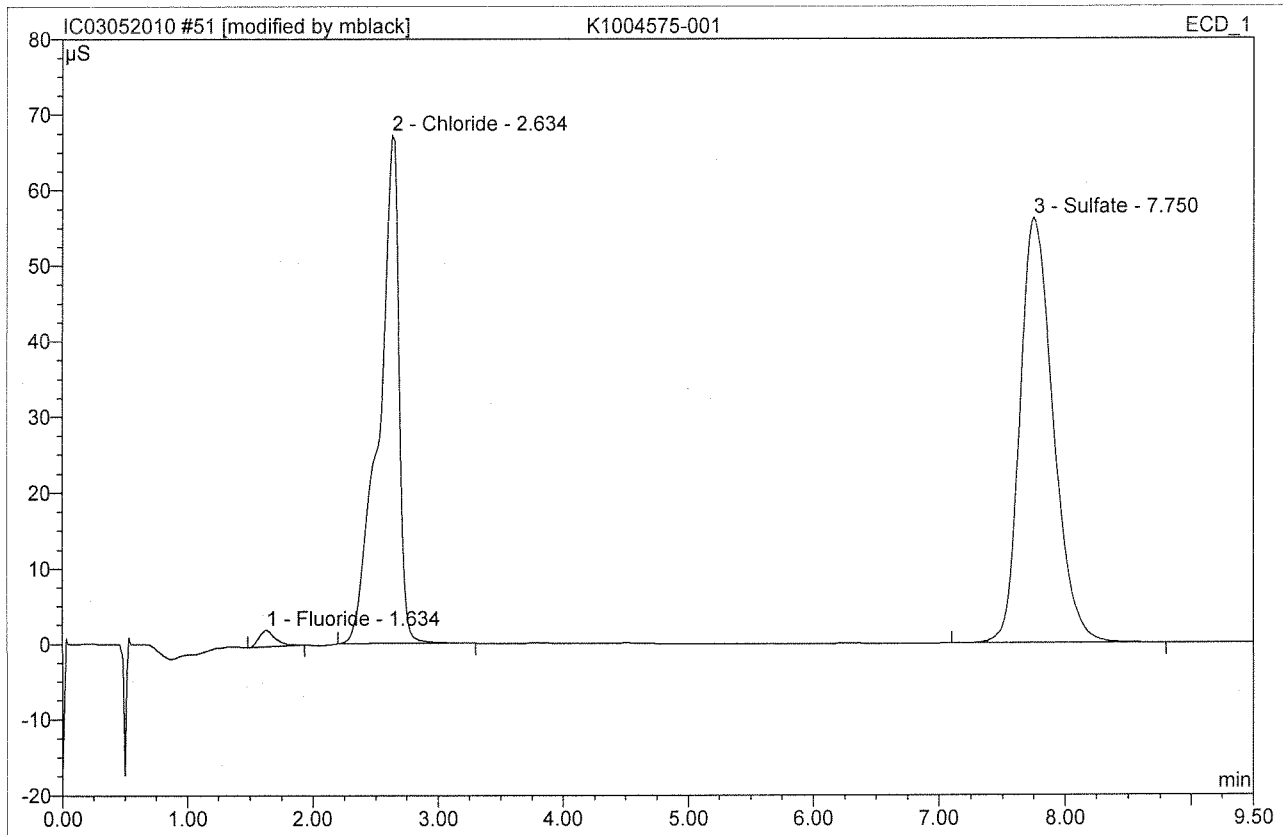
|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | Br ICV AN1-33-C | Injection Volume: | 200.0  |
| Vial Number:     | 14              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:56 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount    | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------|------|
| 1             | 4.20            | Bromide   | 12.583       | 2.210          | 100.00        | 4.124103% | BMB  |
| <b>Total:</b> |                 |           | 12.583       | 2.210          | 100.00        | 4.124     |      |

**51 K1004575-001**

|                  |                        |                   |               |
|------------------|------------------------|-------------------|---------------|
| Sample Name:     | <b>K1004575-001</b>    | Injection Volume: | <b>200.0</b>  |
| Vial Number:     | <b>48</b>              | Channel:          | <b>ECD_1</b>  |
| Sample Type:     | <b>unknown</b>         | Wavelength:       | <b>n.a.</b>   |
| Control Program: | <b>epa300</b>          | Bandwidth:        | <b>n.a.</b>   |
| Quantif. Method: | <b>epa300</b>          | Dilution Factor:  | <b>2.0000</b> |
| Recording Time:  | <b>5/20/2010 18:13</b> | Sample Weight:    | <b>1.0000</b> |
| Run Time (min):  | <b>9.50</b>            | Sample Amount:    | <b>1.0000</b> |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.63            | Fluoride  | 2.196        | 0.330          | 1.10          | 0.344  | BMB* |
| 2             | 2.63            | Chloride  | 67.225       | 12.290         | 41.19         | 15.761 | BMB* |
| 3             | 7.75            | Sulfate   | 56.207       | 17.218         | 57.71         | 34.992 | BMB  |
| <b>Total:</b> |                 |           | 125.627      | 29.837         | 100.00        | 51.098 |      |

After Initials

*MB*

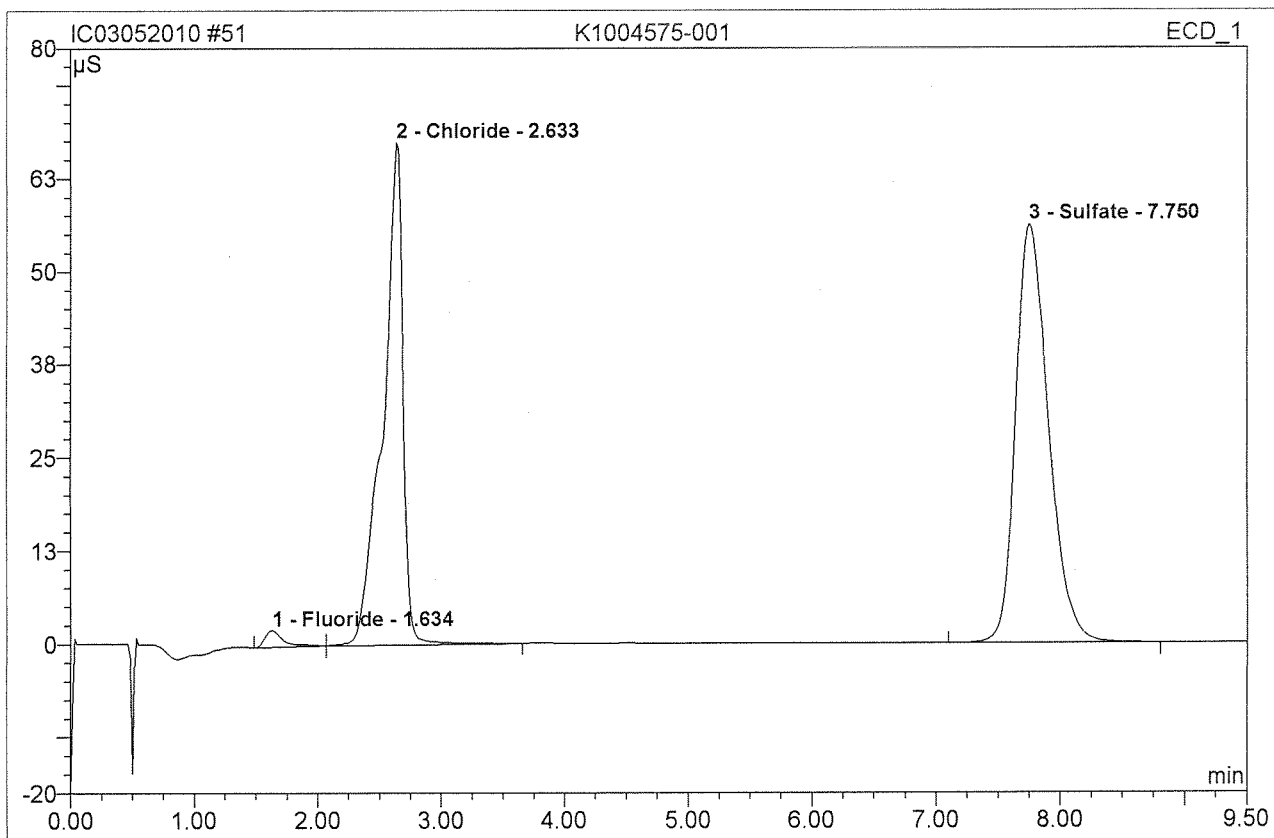
MAY 21 2010

*ju 5/25/10*

Wrong Peak/Peak not Found  
 Baseline/shoulder incorrect  
 Other

**51 K1004575-001**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004575-001    | Injection Volume: | 200.0  |
| Vial Number:     | 48              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 18:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



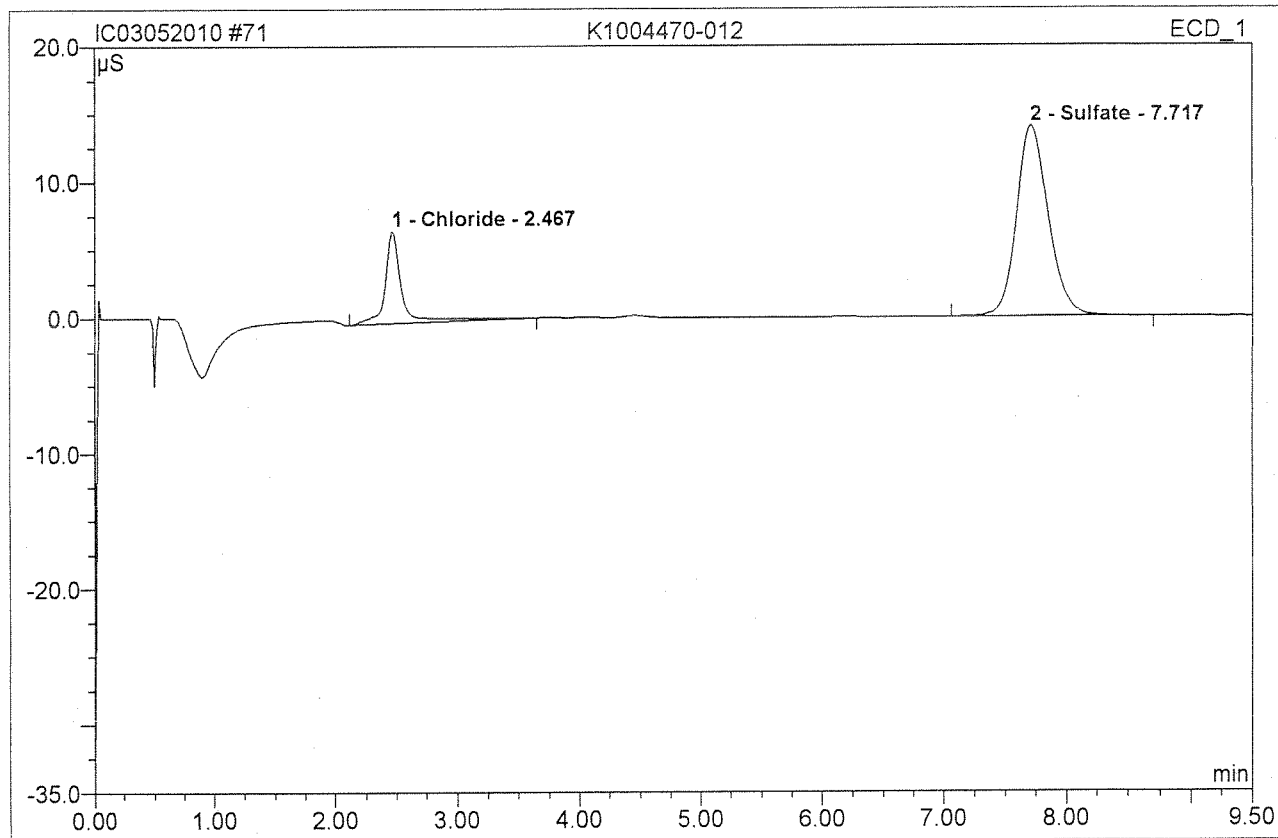
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.63             | Fluoride  | 2.254        | 0.380          | 1.26           | 0.397  | BMB  |
| 2             | 2.63             | Chloride  | 67.399       | 12.494         | 41.52          | 16.022 | bMB  |
| 3             | 7.75             | Sulfate   | 56.207       | 17.218         | 57.22          | 34.992 | BMB  |
| <b>Total:</b> |                  |           | 125.860      | 30.091         | 100.00         | 51.411 |      |

Before

MAY 21 2010

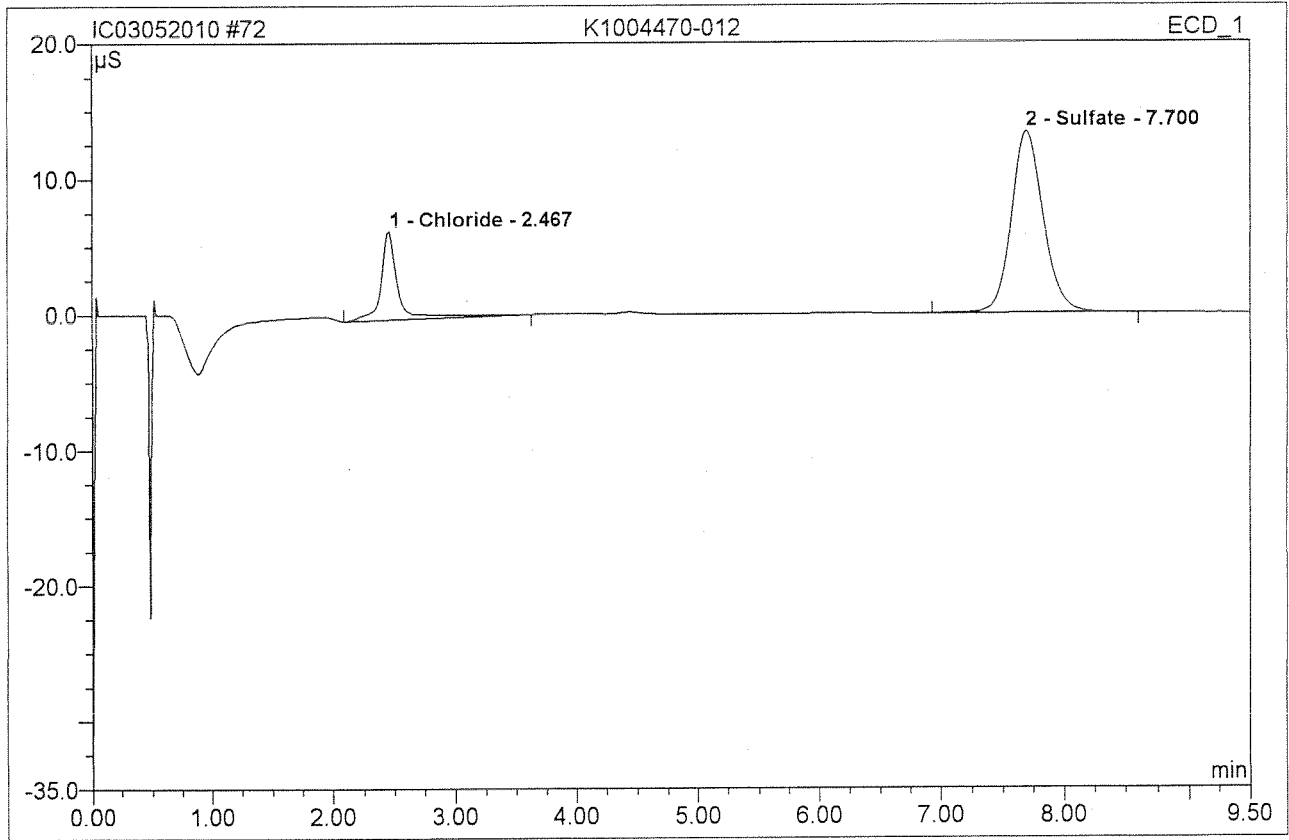
**71 K1004470-012**

|                  |                 |                   |         |
|------------------|-----------------|-------------------|---------|
| Sample Name:     | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:     | 68              | Channel:          | ECD_1   |
| Sample Type:     | unknown         | Wavelength:       | n.a.    |
| Control Program: | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:  | 5/20/2010 22:12 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000  |



| No.           | Ret.Time<br>min | Peak Name                   | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------------------------|--------------|----------------|---------------|---------|------|
| 1             | 2.47            | Chloride                    | 6.791        | 1.108          | 20.72         | 35.508  | BMB  |
| 2             | 7.72            | Sulfate <i>K=211 RPD=4%</i> | 14.028       | 4.237          | 79.28         | 215.298 | BMB  |
| <b>Total:</b> |                 |                             | 20.819       | 5.345          | 100.00        | 250.806 |      |

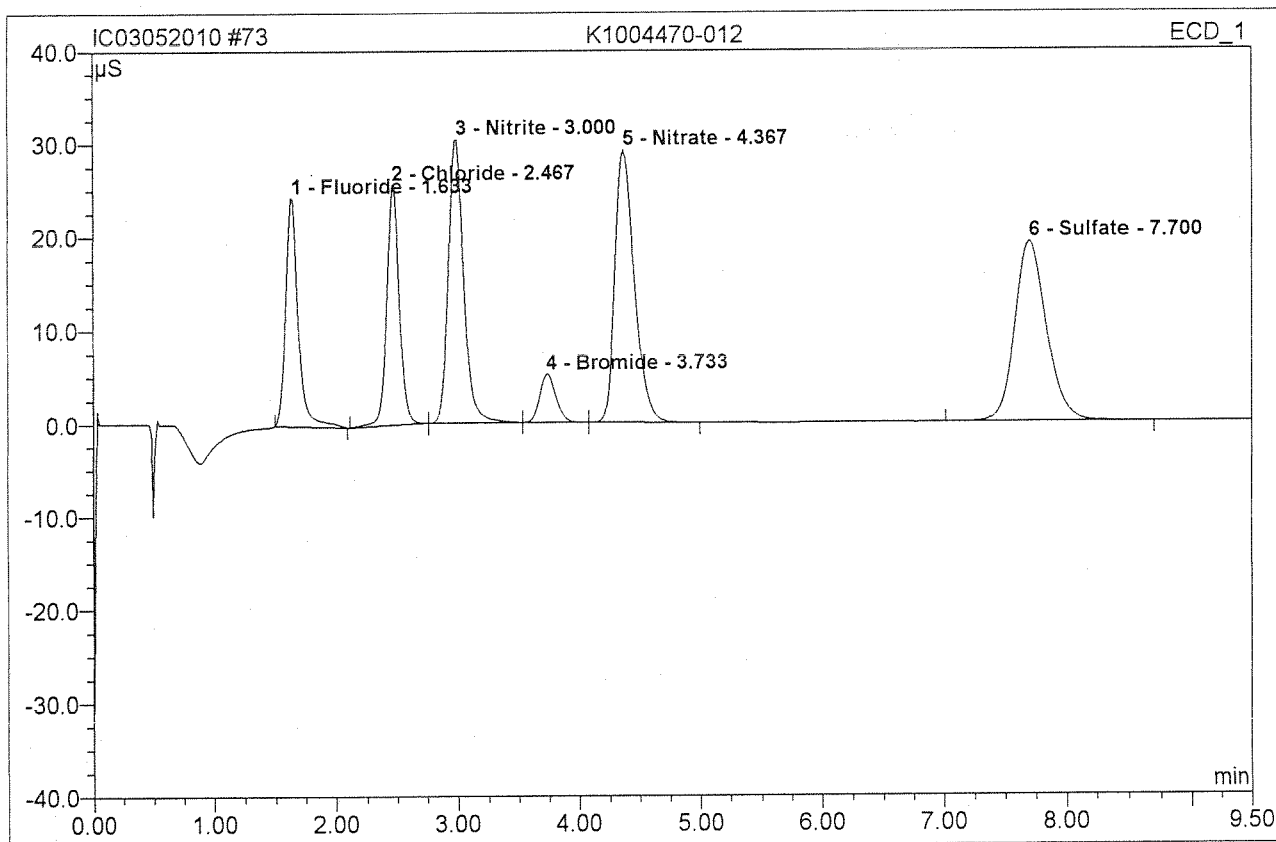
|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>72 K1004470-012</b> |                 |                   |         |
| <b>4470-12D</b>        |                 |                   |         |
| Sample Name:           | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:           | 69              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/20/2010 22:24 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|------|
| 1             | 2.47             | Chloride  | 6.534        | 1.081          | 21.07          | 34.658  | BMB  |
| 2             | 7.70             | Sulfate   | 13.376       | 4.050          | 78.93          | 205.782 | BMB  |
| <b>Total:</b> |                  |           | 19.910       | 5.131          | 100.00         | 240.439 |      |

**73 K1004470-012****4470-12MS**

|                  |                 |                   |         |
|------------------|-----------------|-------------------|---------|
| Sample Name:     | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:     | 70              | Channel:          | ECD_1   |
| Sample Type:     | unknown         | Wavelength:       | n.a.    |
| Control Program: | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:  | 5/20/2010 22:36 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000  |

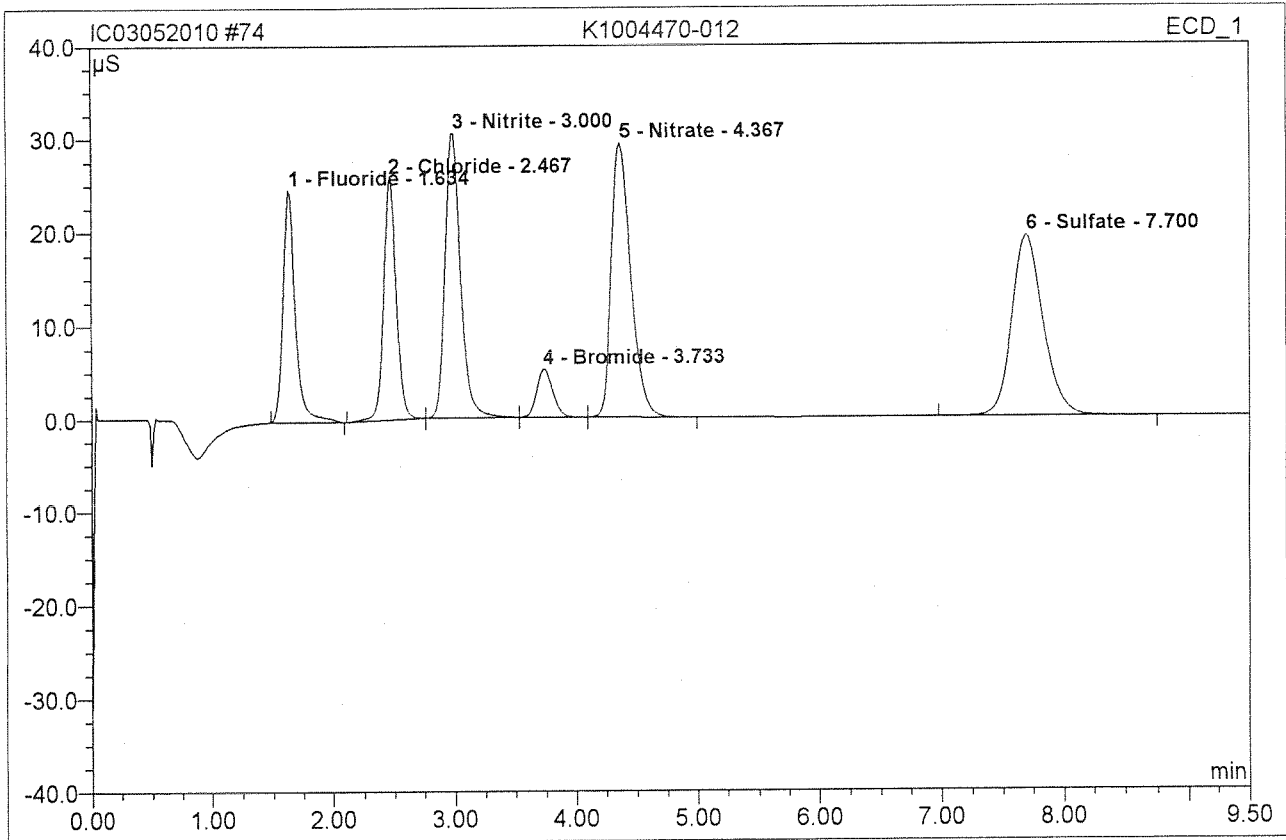


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount              | Type |
|---------------|------------------|-----------|--------------|----------------|---------------|---------------------|------|
| 1             | 1.63             | Fluoride  | 24.443       | 2.927          | 13.01         | 76.481              | BMB  |
| 2             | 2.47             | Chloride  | 25.724       | 3.085          | 13.71         | 98.915              | BMB  |
| 3             | 3.00             | Nitrite   | 30.362       | 4.440          | 19.73         | 76.895              | bMb  |
| 4             | 3.73             | Bromide   | 5.112        | 0.807          | 3.59          | 75.297              | bMb  |
| 5             | 4.37             | Nitrate   | 29.199       | 5.451          | 24.22         | 73.984              | bMB  |
| 6             | 7.70             | Sulfate   | 19.274       | 5.794          | 25.74         | 294.369 <i>1052</i> | BMB  |
| <b>Total:</b> |                  |           | 134.114      | 22.504         | 100.00        | 695.941             |      |

*TV: TS*



|                        |                 |                   |         |
|------------------------|-----------------|-------------------|---------|
| <b>74 K1004470-012</b> |                 |                   |         |
| <b>4470-12MSD</b>      |                 |                   |         |
| Sample Name:           | K1004470-012    | Injection Volume: | 200.0   |
| Vial Number:           | 71              | Channel:          | ECD_1   |
| Sample Type:           | unknown         | Wavelength:       | n.a.    |
| Control Program:       | epa300          | Bandwidth:        | n.a.    |
| Quantif. Method:       | epa300          | Dilution Factor:  | 50.0000 |
| Recording Time:        | 5/20/2010 22:48 | Sample Weight:    | 1.0000  |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000  |

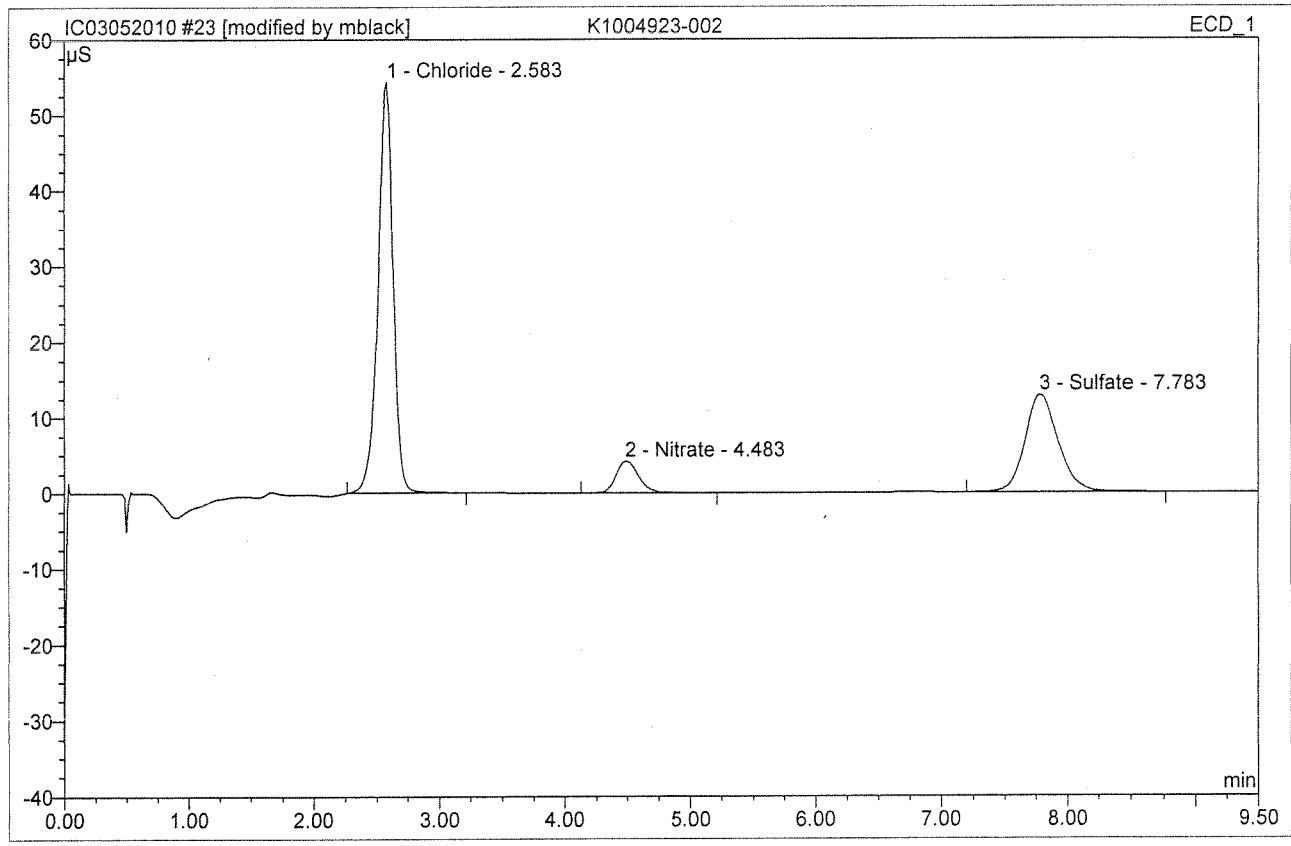


| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount       | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------------|------|
| 1             | 1.63         | Fluoride  | 24.837    | 2.978       | 13.13      | 77.814       | BMB  |
| 2             | 2.47         | Chloride  | 25.899    | 3.112       | 13.72      | 99.776       | BMb  |
| 3             | 3.00         | Nitrite   | 30.505    | 4.491       | 19.81      | 77.779       | bMb  |
| 4             | 3.73         | Bromide   | 5.158     | 0.807       | 3.56       | 75.334       | bMb  |
| 5             | 4.37         | Nitrate   | 29.393    | 5.458       | 24.07      | 74.077       | bMB  |
| 6             | 7.70         | Sulfate   | 19.378    | 5.830       | 25.71      | 296.209/1057 | BMB  |
| <b>Total:</b> |              |           | 135.170   | 22.676      | 100.00     | 700.988      |      |

TV=75.0

**23 K1004923-002**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:     | 21              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 12:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

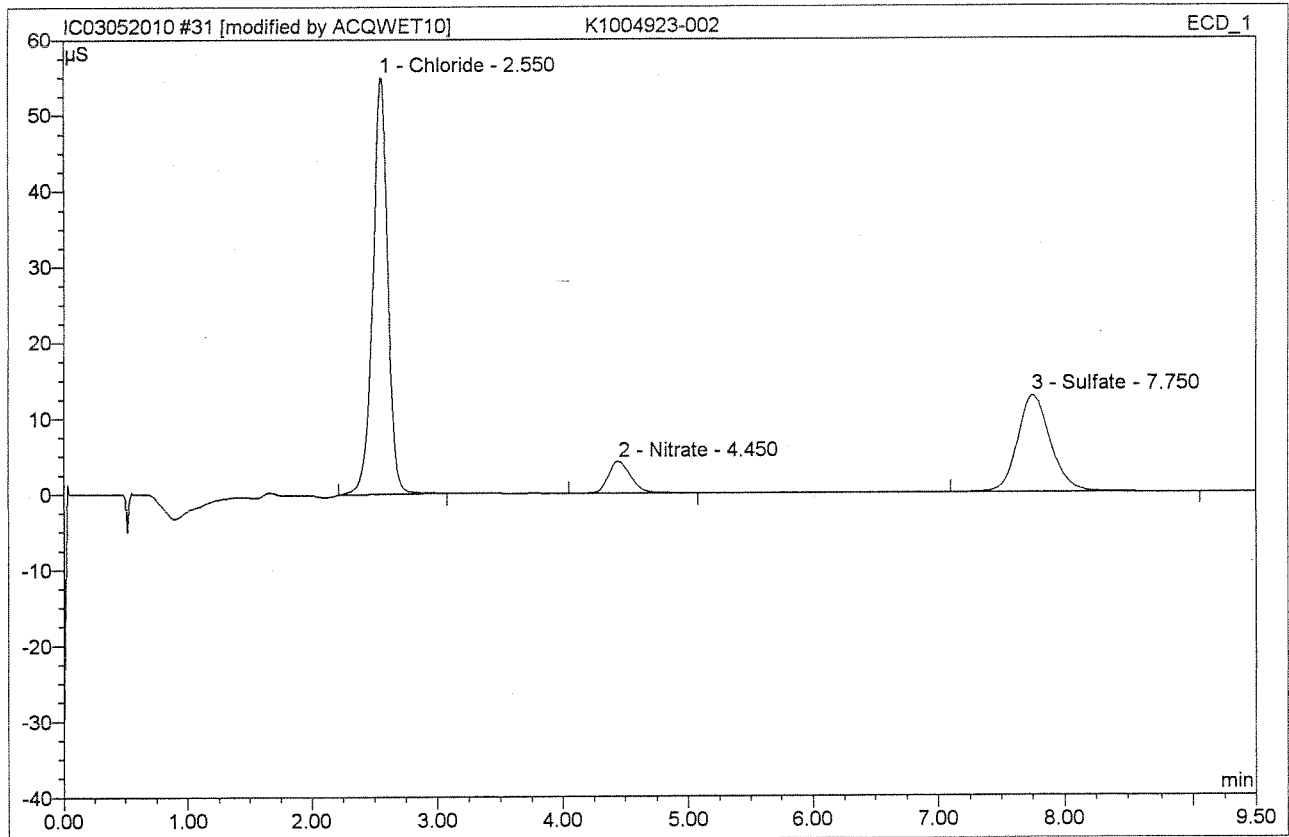


| No.           | Ret.Time min | Peak Name                       | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|---------------------------------|-----------|-------------|------------|--------|------|
| 1             | 2.58         | Chloride $\bar{x}=9.80$ RPD=21% | 54.379    | 7.667       | 61.56      | 9.832  | BMB* |
| 2             | 4.48         | Nitrate                         | 4.197     | 0.867       | 6.96       | 0.471  | BMB* |
| 3             | 7.78         | Sulfate $\bar{x}=7.91$ RPD=2%   | 12.889    | 3.919       | 31.47      | 7.966  | BMB  |
| <b>Total:</b> |              |                                 | 71.464    | 12.453      | 100.00     | 18.269 |      |

After initials MB  
 MAY 20 2010  
 CD Where Peak Table Not Found  
 10/10/2009 10:00 AM

*MB* 5/25/10

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>31 K1004923-002</b> |                 |                   |        |
| <b>4923-2D</b>         |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 28              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:14 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 2.55         | Chloride  | 55.040    | 7.612       | 61.72      | 9.762  | BMB* |
| 2             | 4.45         | Nitrate   | 4.215     | 0.857       | 6.95       | 0.465  | BMB* |
| 3             | 7.75         | Sulfate   | 12.806    | 3.864       | 31.33      | 7.852  | BMB  |
| <b>Total:</b> |              |           | 72.061    | 12.332      | 100.00     | 18.079 |      |

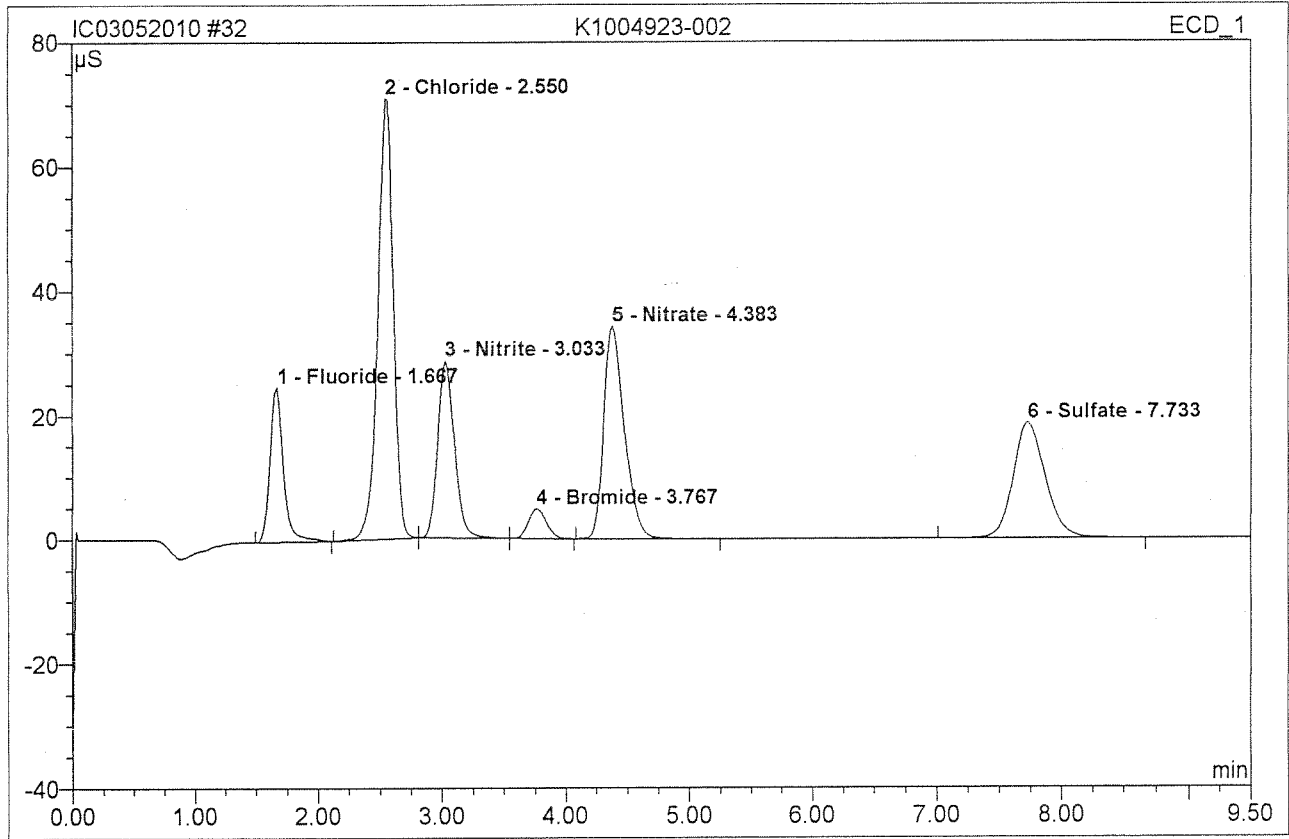
After Initials

*MR*

MAY 20 2010

*5/25/10*

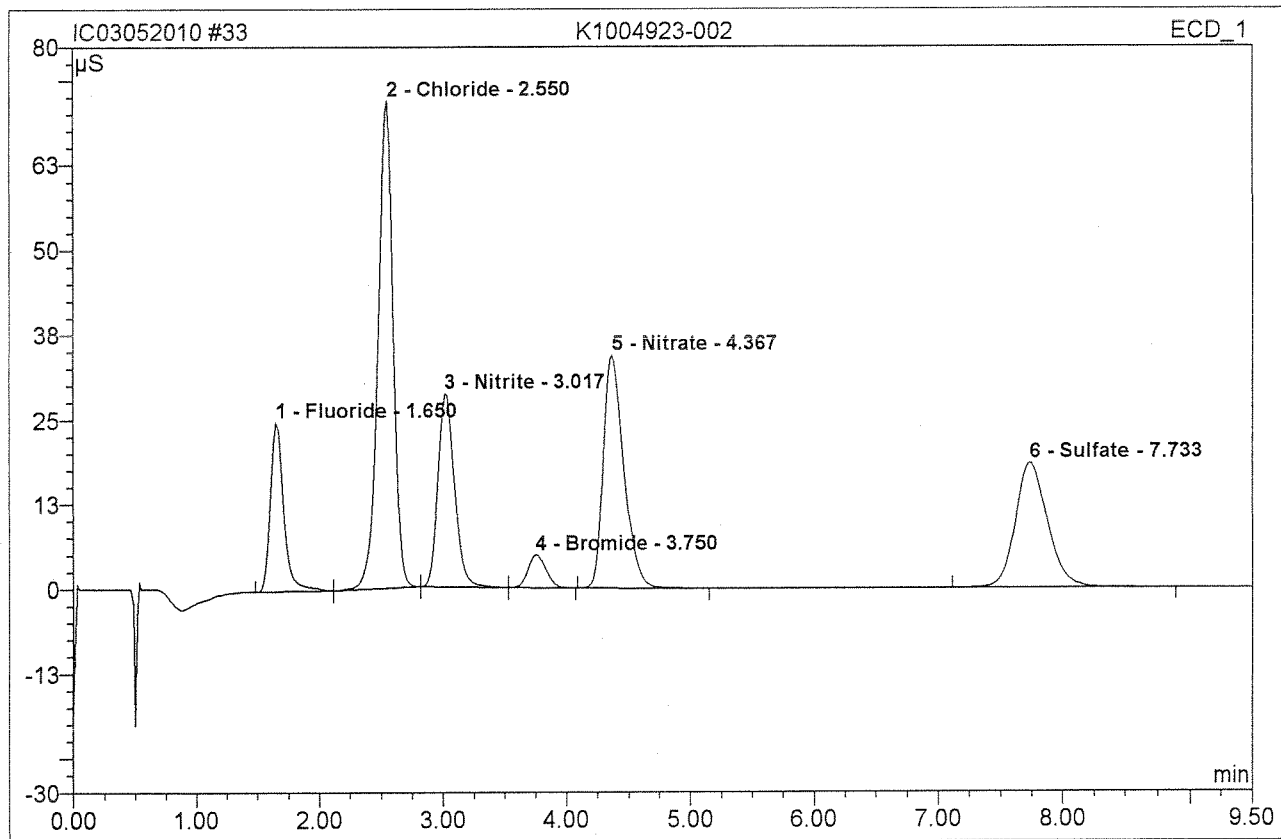
|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>32 K1004923-002</b> |                 |                   |        |
| <b>4923-2MS</b>        |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 29              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:26 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount                  | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-------------------------|------|
| 1             | 1.67         | Fluoride  | 24.899    | 3.092       | 10.05      | 3.232 <sup>10.5%</sup>  | BMB  |
| 2             | 2.55         | Chloride  | 70.832    | 10.158      | 33.02      | 13.027 <sup>16.7%</sup> | BMB  |
| 3             | 3.03         | Nitrite   | 28.406    | 4.477       | 14.55      | 3.101 <sup>10.3%</sup>  | bMb  |
| 4             | 3.77         | Bromide   | 4.834     | 0.811       | 2.64       | 3.027 <sup>10.1%</sup>  | bMB  |
| 5             | 4.38         | Nitrate   | 34.168    | 6.671       | 21.68      | 3.622 <sup>15.2%</sup>  | BMB  |
| 6             | 7.73         | Sulfate   | 18.657    | 5.557       | 18.06      | 11.295 <sup>11.1%</sup> | BMB  |
| <b>Total:</b> |              |           | 181.796   | 30.767      | 100.00     | 37.304                  |      |

TV=3.00

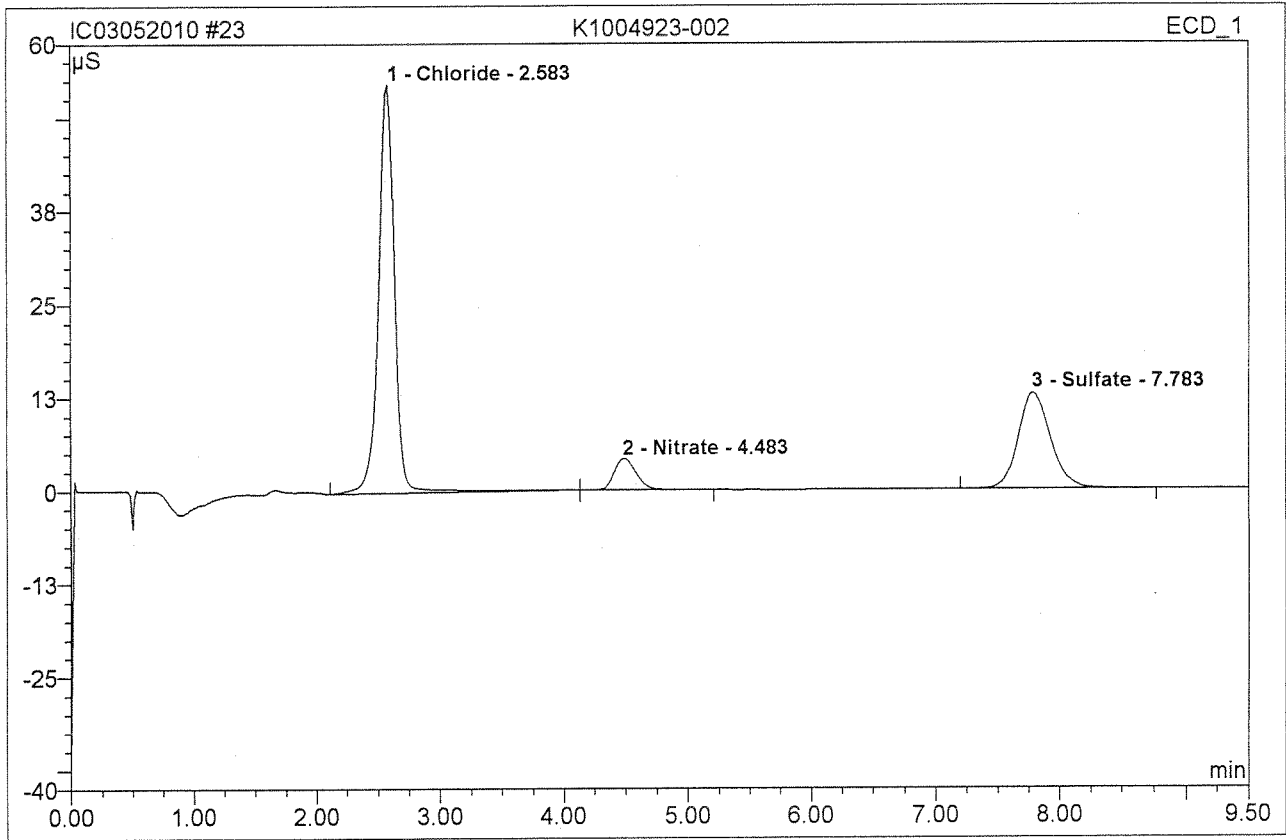
|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>33 K1004923-002</b> |                 |                   |        |
| <b>4923-2MSD</b>       |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 30              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 14:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount     | Type |
|---------------|--------------|-----------|-----------|-------------|------------|------------|------|
| 1             | 1.65         | Fluoride  | 25.042    | 3.091       | 10.08      | 3.231108%  | BMB  |
| 2             | 2.55         | Chloride  | 71.836    | 10.112      | 32.96      | 12.968106% | bMb  |
| 3             | 3.02         | Nitrite   | 28.491    | 4.492       | 14.64      | 3.111104%  | bMb  |
| 4             | 3.75         | Bromide   | 4.858     | 0.815       | 2.66       | 3.041101%  | bMB  |
| 5             | 4.37         | Nitrate   | 34.413    | 6.676       | 21.76      | 3.625105%  | BMB  |
| 6             | 7.73         | Sulfate   | 18.444    | 5.491       | 17.90      | 11.159108% | BMB  |
| <b>Total:</b> |              |           | 183.084   | 30.677      | 100.00     | 37.135     |      |

TV=3.00

|                        |                 |                   |        |
|------------------------|-----------------|-------------------|--------|
| <b>23 K1004923-002</b> |                 |                   |        |
| Sample Name:           | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:           | 21              | Channel:          | ECD_1  |
| Sample Type:           | unknown         | Wavelength:       | n.a.   |
| Control Program:       | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:        | 5/20/2010 12:38 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.58             | Chloride  | 54.735       | 8.108          | 62.88          | 10.398 | BMB  |
| 2             | 4.48             | Nitrate   | 4.197        | 0.867          | 6.73           | 0.471  | bMB  |
| 3             | 7.78             | Sulfate   | 12.889       | 3.919          | 30.40          | 7.966  | BMB  |
| <b>Total:</b> |                  |           | 71.820       | 12.895         | 100.00         | 18.834 |      |

Before

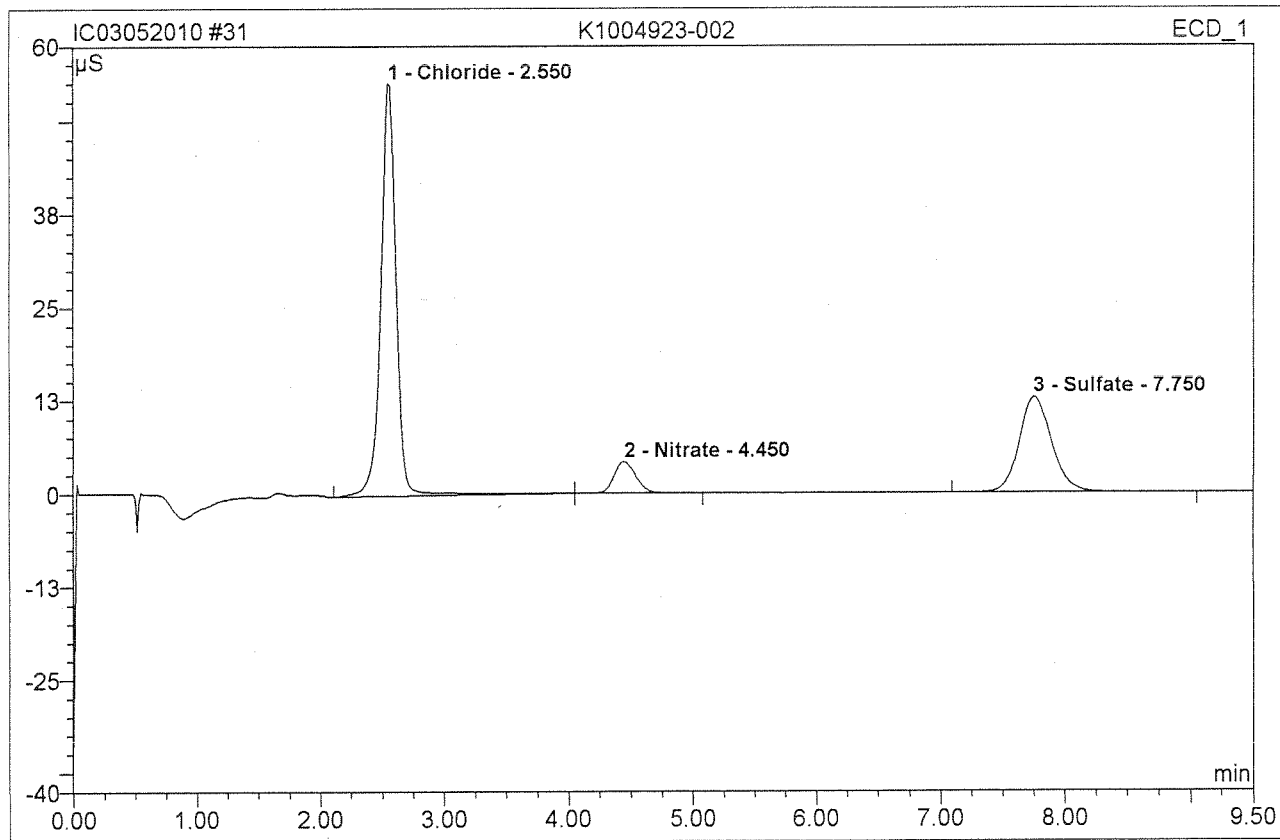
MAY 20 2010



**31 K1004923-002**

**4923-2D**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | K1004923-002    | Injection Volume: | 200.0  |
| Vial Number:     | 28              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 5/20/2010 14:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.55            | Chloride  | 55.323       | 8.004          | 62.91         | 10.265 | BMB  |
| 2             | 4.45            | Nitrate   | 4.215        | 0.857          | 6.73          | 0.465  | bMB  |
| 3             | 7.75            | Sulfate   | 12.806       | 3.864          | 30.36         | 7.852  | BMB  |
| <b>Total:</b> |                 |           | 72.344       | 12.724         | 100.00        | 18.582 |      |

Before

MAY 20 2010

- 1. Holding times met for all samples analyzed? yes/~~no~~/NA \*  
no
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
  - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
  - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
  - c. Are results for Method Blanks all ND? yes/no/NA
  - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
  - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis. *K5150, K5161 received past hdl for NO3*

|          |                       |                                  |                          |
|----------|-----------------------|----------------------------------|--------------------------|
| LCS      |                       |                                  |                          |
| Fluoride | True Value = 13.5 ppm | CAS ID # = <u>AN1-33-D</u>       | Expires: <u>7/19/10</u>  |
| Chloride | True Value = 5.0ppm   | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/10</u>     |
| Nitrite  | True Value = 100 ppm  | CAS ID # = <u>AN11-27-CC</u>     | Expires: <u>5/20/10</u>  |
| Bromide  | True Value = 4.0 ppm  | CAS ID # = <u>AN1-33-L</u>       | Expires: <u>10/25/10</u> |
| Nitrate  | True Value = 21.0 ppm | CAS ID # = <u>AN1-33-E</u>       | Expires: <u>7/21/10</u>  |
| Sulfate  | True Value = 5.0 ppm  | CAS ID # = <u>ERA#0107-10-02</u> | Expires: <u>8/10</u>     |

|          |                             |                                 |                          |
|----------|-----------------------------|---------------------------------|--------------------------|
| CCV      | CAS ID # = <u>AN11-20-H</u> | Expires <u>5/20/10</u>          |                          |
| Fluoride | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: <u>10/25/10</u> |
| Chloride | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: <u>8/5/10</u>   |
| Nitrite  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: <u>10/25/10</u> |
| Bromide  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: <u>6/21/10</u>  |
| Nitrate  | True Value = 2.0 ppm        | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: <u>9/9/10</u>   |
| Sulfate  | True Value = 5.0 ppm        | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: <u>8/5/10</u>   |

|                          |                                 |                        |                   |
|--------------------------|---------------------------------|------------------------|-------------------|
| Spike                    |                                 |                        |                   |
| 1.5ppm X dilution factor | CAS ID # = <u>AN11-10-M</u>     | Expires <u>5/20/10</u> |                   |
| Fluoride                 | 10K CAS ID # = <u>AN1-33-M</u>  | Expires: _____         | } see 10K CCV IDs |
| Chloride                 | 10K CAS ID # = <u>AN1-33-F</u>  | Expires: _____         |                   |
| Nitrite                  | 10K CAS ID # = <u>AN1-33-N</u>  | Expires: _____         |                   |
| Bromide                  | 10K CAS ID # = <u>AN1-20-DD</u> | Expires: _____         |                   |
| Nitrate                  | 10K CAS ID # = <u>AN1-33-I</u>  | Expires: _____         |                   |
| Sulfate                  | 10K CAS ID # = <u>AN1-33-G</u>  | Expires: _____         |                   |

Analyst: LB Date: 5/20/10  
 First Review: LB Date: 5/20/10  
 Final Review: ML Date: 5/25/10

| Service Request | Tier | QC | Hold Time | Due Date | Anion | Initial | Final  | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|-------|---------|--------|-------------|-------|
| K 5105-1        | I    |    | 5/21      | 6/5      | F     |         |        |             |       |
| P.P.            |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                 |      |    |           |          | NO2   | }       |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             | ✓     |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
| K 4536-1 EXT    |      |    |           |          | F     |         |        |             |       |
|                 |      |    |           |          | CL    |         |        |             |       |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         | 0.25/5 |             | ✓     |
| K 5149-2        | II   |    | 5/20 1200 | 5/31     | F     | 2.5/5   |        |             |       |
| Cocur<br>Alaska |      |    |           |          | CL    | }       |        |             |       |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        | 0.25/5      |       |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
| K 4933-1        | III  |    |           | 5/25     | F     |         |        |             |       |
| UES             |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                 |      |    |           |          | NO2   | }       |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
|                 |      |    |           |          |       |         |        |             |       |
|                 |      |    |           |          | F     |         |        |             |       |
| -2              |      | X  |           |          | CL    | }       |        |             | ✓     |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
|                 |      |    |           |          | F     |         |        |             |       |
| -3              |      |    |           |          | CL    | }       | 1/5    |             | ✓     |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
|                 |      |    |           |          | F     |         |        |             |       |
| -8              |      |    |           |          | CL    | }       | 4/5    |             | ✓     |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        |             | ✓     |
| K 4967-1        | I    |    |           | 5/28     | F     |         |        |             |       |
| Northstar       |      |    |           |          | CL    |         |        |             |       |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   | 0.1/5   |        |             | ✓     |
| K 4711-1        | II   |    |           | 5/28     | F     |         |        |             |       |
| City Point      |      |    |           |          | CL    | 2.5/5   |        |             | ✓     |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        |             |       |
| K 4467-1        | III  |    |           | 5/27     | F     | 2.5/5   |        |             | ✓     |
| Exponent        |      |    |           |          | CL    | }       |        |             | ✓     |
|                 |      |    |           |          | NO2   |         |        |             |       |
|                 |      |    |           |          | Br    |         |        |             |       |
|                 |      |    |           |          | NO3   |         |        |             |       |
|                 |      |    |           |          | SO4   |         |        | 0.5/5       |       |

| Service Request | Tier | QC | Hold Time  | Due Date | Anion | Initial | Final | QC DILUTION | Done? |
|-----------------|------|----|------------|----------|-------|---------|-------|-------------|-------|
| K4680-1         | I    |    |            | 5/28     | F     | 2.5/5   |       |             | ✓     |
| RJ Lee Group    |      |    |            |          | CL    |         |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |
| -2              |      |    |            |          | F     |         |       |             | ✓     |
|                 |      |    |            |          | CL    |         |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |
| -3              |      |    |            |          | F     |         |       |             | ✓     |
|                 |      |    |            |          | CL    |         |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |
| -4              |      |    |            |          | F     |         |       |             | ✓     |
|                 |      |    |            |          | CL    |         |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |
| -5              |      |    |            |          | F     |         |       |             | ✓     |
|                 |      |    |            |          | CL    |         |       |             |       |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |
| K5150-1         | II   |    | Rec'd Past | 5/31     | F     |         |       |             | ✓     |
| Coeur Alaska    |      |    |            |          | CL    | 1/5     |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   | 1/5     |       |             | ✓     |
|                 |      |    |            |          | SO4   | 6.5/100 |       |             | ✓     |
| K5161-1         | II   |    | Rec'd Past | 5/31     | F     |         |       |             | ✓     |
| Coeur Alaska    |      |    |            |          | CL    | 2.5/5   |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             | ✓     |
|                 |      |    |            |          | SO4   |         |       |             | ✓     |
| -2              |      |    |            |          | F     |         |       |             | ✓     |
|                 |      |    |            |          | CL    | 2.5/5   |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             | ✓     |
|                 |      |    |            |          | SO4   |         |       |             | ✓     |
| K4575-1         | III  |    |            | 5/29     | F     | 2.5/5   |       |             | ✓     |
| Exponent (MDC)  |      |    |            |          | CL    |         |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         | 1/5   |             |       |
| -2              |      |    |            |          | F     | 2.5/5   |       |             | ✓     |
|                 |      |    |            |          | CL    |         |       |             | ✓     |
|                 |      |    |            |          | NO2   |         |       |             |       |
|                 |      |    |            |          | Br    |         |       |             |       |
|                 |      |    |            |          | NO3   |         |       |             |       |
|                 |      |    |            |          | SO4   |         |       |             |       |

| Service Request | Tier | QC | Hold Time | Due Date | Anion                              | Initial | Final  | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|------------------------------------|---------|--------|-------------|-------|
| K4575-3         | III  |    |           | 5/29     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             |       |
| -4              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 5/5     |        |             |       |
| K5160-1         | I    |    |           | 5/20     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |
| P.P             |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 |         |        |             | ✓     |
| K4470-1         | II   |    |           | 5/29     | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |
| Bar?            |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.5/5   |        |             | ✓     |
| -2              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 5/5     |        |             | ✓     |
| -3              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.5/5   |        |             | ✓     |
| -4              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   | 0.25/5 |             |       |
| -5              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.1/5   |        |             | ✓     |
| -6              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 0.25/5  |        |             | ✓     |
| -7              |      |    |           |          | F<br>CL<br>NO2<br>Br<br>NO3<br>SO4 | 2.5/5   |        |             | ✓     |

| Service Request | Tier | QC | Hold Time | Due Date | Anion          | Initial | Final            | QC DILUTION | Done? |
|-----------------|------|----|-----------|----------|----------------|---------|------------------|-------------|-------|
| 24470-8         |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | <del>CL</del>  | 200x    | <del>0.5/5</del> |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 200x    | 0.5/5            |             |       |
| -9              |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | <del>CL</del>  | 0.25/5  |                  |             | ✓     |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 0.25/5  |                  |             | ✓     |
| -10             |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | <del>CL</del>  | 0.25/5  | 2.5/5            |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 0.25/5  |                  |             | ✓     |
| -11             |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | <del>CL</del>  | 2.5/5   | 1/5              |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 2.5/5   |                  |             | ✓     |
| -12             |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | CL             |         |                  |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 0.1/5   |                  |             | ✓     |
| -13             |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | CL             |         |                  |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 200x    |                  |             | ✓     |
| -14             |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | CL             |         |                  |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | <del>SO4</del> | 0.1/5   |                  |             | ✓     |
|                 |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | CL             |         |                  |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | SO4            |         |                  |             |       |
|                 |      |    |           |          | F              |         |                  |             |       |
|                 |      |    |           |          | CL             |         |                  |             |       |
|                 |      |    |           |          | NO2            |         |                  |             |       |
|                 |      |    |           |          | Br             |         |                  |             |       |
|                 |      |    |           |          | NO3            |         |                  |             |       |
|                 |      |    |           |          | SO4            |         |                  |             |       |













































Sequence: IC03052010  
Operator: mblack

Page 1 of 4  
Printed: 5/21/2010 3:42:44 PM

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83

Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name  | Type     | Pos. | Inj. Vol. | Program | Method | Status   |
|-----|---|----------|------|-----------|---------|--------|----------|
| 1   |  std2/M2               | Standard | 1    | 200.0     | epa300  | epa300 | Finished |
| 2   |  std3/M3               | Standard | 2    | 200.0     | epa300  | epa300 | Finished |
| 3   |  std4/M4               | Standard | 3    | 200.0     | epa300  | epa300 | Finished |
| 4   |  std5/M5               | Standard | 4    | 200.0     | epa300  | epa300 | Finished |
| 5   |  std6/M6               | Standard | 5    | 200.0     | epa300  | epa300 | Finished |
| 6   |  std7/M7               | Standard | 6    | 200.0     | epa300  | epa300 | Finished |
| 7   |  std1/M1               | Standard | 7    | 200.0     | epa300  | epa300 | Finished |
| 8   |  CCV AN11-20-H         | Unknown  | 8    | 200.0     | epa300  | epa300 | Finished |
| 9   |  CCB                   | Unknown  | 9    | 200.0     | epa300  | epa300 | Finished |
| 10  |  NO2 AN11-27-CC        | Unknown  | 10   | 200.0     | epa300  | epa300 | Finished |
| 11  |  MB                    | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished |
| 12  |  NO3 AN1-33-E          | Unknown  | 11   | 200.0     | epa300  | epa300 | Finished |
| 13  |  CLSO4 ERA #0107-10-02 | Unknown  | 12   | 200.0     | epa300  | epa300 | Finished |
| 14  |  F AN1-33-D            | Unknown  | 13   | 200.0     | epa300  | epa300 | Finished |
| 15  |  Br AN1-33-L           | Unknown  | 14   | 200.0     | epa300  | epa300 | Finished |
| 16  |  SPK AN11-10-M       | Unknown  | 15   | 200.0     | epa300  | epa300 | Finished |
| 17  |  CCV2                | Unknown  | 15   | 200.0     | epa300  | epa300 | Finished |
| 18  |  CCB2                | Unknown  | 16   | 200.0     | epa300  | epa300 | Finished |
| 19  |  K1005105-001        | Unknown  | 17   | 200.0     | epa300  | epa300 | Finished |
| 20  |  K1005149-002        | Unknown  | 18   | 200.0     | epa300  | epa300 | Finished |
| 21  |  K4536-1 BEXT        | Unknown  | 19   | 200.0     | epa300  | epa300 | Finished |
| 22  |  K1004923-001        | Unknown  | 20   | 200.0     | epa300  | epa300 | Finished |
| 23  |  K1004923-002        | Unknown  | 21   | 200.0     | epa300  | epa300 | Finished |
| 24  |  K1004923-003        | Unknown  | 22   | 200.0     | epa300  | epa300 | Finished |
| 25  |  K1004923-008        | Unknown  | 23   | 200.0     | epa300  | epa300 | Finished |
| 26  |  K1004711-001        | Unknown  | 24   | 200.0     | epa300  | epa300 | Finished |
| 27  |  K1004967-001        | Unknown  | 24   | 200.0     | epa300  | epa300 | Finished |
| 28  |  RB                  | Unknown  | 25   | 200.0     | epa300  | epa300 | Finished |
| 29  |  CCV3                | Unknown  | 26   | 200.0     | epa300  | epa300 | Finished |
| 30  |  CCB3                | Unknown  | 27   | 200.0     | epa300  | epa300 | Finished |
| 31  |  K1004923-002        | Unknown  | 28   | 200.0     | epa300  | epa300 | Finished |
| 32  |  K1004923-002        | Unknown  | 29   | 200.0     | epa300  | epa300 | Finished |
| 33  |  K1004923-002        | Unknown  | 30   | 200.0     | epa300  | epa300 | Finished |
| 34  |  K1004467-001        | Unknown  | 31   | 200.0     | epa300  | epa300 | Finished |
| 35  |  K1004680-001        | Unknown  | 32   | 200.0     | epa300  | epa300 | Finished |
| 36  |  K1004680-002        | Unknown  | 33   | 200.0     | epa300  | epa300 | Finished |
| 37  |  K1004680-003        | Unknown  | 34   | 200.0     | epa300  | epa300 | Finished |
| 38  |  K1004680-004        | Unknown  | 35   | 200.0     | epa300  | epa300 | Finished |
| 39  |  K1004680-005        | Unknown  | 36   | 200.0     | epa300  | epa300 | Finished |
| 40  |  RB                  | Unknown  | 37   | 200.0     | epa300  | epa300 | Finished |
| 41  |  CCV4                | Unknown  | 38   | 200.0     | epa300  | epa300 | Finished |
| 42  |  CCB4                | Unknown  | 39   | 200.0     | epa300  | epa300 | Finished |

Sequence: IC03052010  
Operator: mblack

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Printed: 5/21/2010 3:42:44 PM










































Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83  
Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name                  | Inj. Date/Time        | Dil. Factor | Comment   |
|-----|-----------------------|-----------------------|-------------|-----------|
| 1   | std2/lvl2             | 4/26/2010 8:54:58 AM  | 1.0000      |           |
| 2   | std3/lvl3             | 4/26/2010 9:12:26 AM  | 1.0000      |           |
| 3   | std4/lvl4             | 4/26/2010 9:25:24 AM  | 1.0000      |           |
| 4   | std5/lvl5             | 4/26/2010 9:38:21 AM  | 1.0000      |           |
| 5   | std6/lvl6             | 4/26/2010 9:51:19 AM  | 1.0000      |           |
| 6   | std7/lvl7             | 4/26/2010 10:04:17 AM | 1.0000      |           |
| 7   | std1/lvl1             | 4/26/2010 10:17:14 AM | 1.0000      |           |
| 8   | CCV AN11-20-H         | 5/20/2010 8:54:44 AM  | 1.0000      | CCV1      |
| 9   | CCB                   | 5/20/2010 9:06:41 AM  | 1.0000      | CCB1      |
| 10  | NO2 AN11-27-CC        | 5/20/2010 9:18:38 AM  | 25.0000     | NO2       |
| 11  | MB                    | 5/20/2010 9:30:36 AM  | 1.0000      | MB        |
| 12  | NO3 AN1-33-E          | 5/20/2010 9:42:34 AM  | 20.0000     | NO3       |
| 13  | CLSO4 ERA #0107-10-02 | 5/20/2010 9:54:32 AM  | 1.0000      | CLSO4     |
| 14  | F AN1-33-D            | 5/20/2010 10:06:30 AM | 2.0000      | F         |
| 15  | Br AN1-33-L           | 5/20/2010 10:18:28 AM | 1.0000      | Br        |
| 16  | SPK AN11-10-M         | 5/20/2010 10:30:26 AM | 1.0000      | SPK       |
| 17  | CCV2                  | 5/20/2010 10:42:24 AM | 1.0000      | CCV2      |
| 18  | CCB2                  | 5/20/2010 10:54:21 AM | 1.0000      | CCB2      |
| 19  | K1005105-001          | 5/20/2010 11:17:40 AM | 2.0000      |           |
| 20  | K1005149-002          | 5/20/2010 11:54:10 AM | 2.0000      |           |
| 21  | K4536-1 BEXT          | 5/20/2010 12:14:49 PM | 20.0000     |           |
| 22  | K1004923-001          | 5/20/2010 12:26:47 PM | 2.0000      |           |
| 23  | K1004923-002          | 5/20/2010 12:38:45 PM | 2.0000      |           |
| 24  | K1004923-003          | 5/20/2010 12:50:43 PM | 2.0000      |           |
| 25  | K1004923-008          | 5/20/2010 1:02:41 PM  | 2.0000      |           |
| 26  | K1004711-001          | 5/20/2010 1:14:40 PM  | 2.0000      |           |
| 27  | K1004967-001          | 5/20/2010 1:26:37 PM  | 50.0000     |           |
| 28  | RB                    | 5/20/2010 1:38:35 PM  | 1.0000      |           |
| 29  | CCV3                  | 5/20/2010 1:50:33 PM  | 1.0000      | CCV3      |
| 30  | CCB3                  | 5/20/2010 2:02:31 PM  | 1.0000      | CCB3      |
| 31  | K1004923-002          | 5/20/2010 2:14:29 PM  | 2.0000      | 4923-2D   |
| 32  | K1004923-002          | 5/20/2010 2:26:27 PM  | 2.0000      | 4923-2MS  |
| 33  | K1004923-002          | 5/20/2010 2:38:25 PM  | 2.0000      | 4923-2MSD |
| 34  | K1004467-001          | 5/20/2010 2:50:22 PM  | 2.0000      |           |
| 35  | K1004680-001          | 5/20/2010 3:02:20 PM  | 2.0000      |           |
| 36  | K1004680-002          | 5/20/2010 3:14:18 PM  | 2.0000      |           |
| 37  | K1004680-003          | 5/20/2010 3:26:17 PM  | 2.0000      |           |
| 38  | K1004680-004          | 5/20/2010 3:38:15 PM  | 2.0000      |           |
| 39  | K1004680-005          | 5/20/2010 3:50:12 PM  | 2.0000      |           |
| 40  | RB                    | 5/20/2010 4:02:10 PM  | 1.0000      |           |
| 41  | CCV4                  | 5/20/2010 4:14:07 PM  | 1.0000      | CCV4      |
| 42  | CCB4                  | 5/20/2010 4:26:05 PM  | 1.0000      | CCB4      |

Sequence: IC03052010  
Operator: mblack

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83










































Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name   | Type    | Pos. | Inj. Vol. | Program      | Method | Status   |
|-----|--|---------|------|-----------|--------------|--------|----------|
| 43  |  K1005160-001   | Unknown | 40   | 200.0     | epa300       | epa300 | Finished |
| 44  |  K1005161-001   | Unknown | 41   | 200.0     | epa300       | epa300 | Finished |
| 45  |  K1005161-002   | Unknown | 42   | 200.0     | epa300       | epa300 | Finished |
| 46  |  K1005150-001   | Unknown | 43   | 200.0     | epa300       | epa300 | Finished |
| 47  |  K1005150-001   | Unknown | 44   | 200.0     | epa300       | epa300 | Finished |
| 48  |  K1005149-002   | Unknown | 45   | 200.0     | epa300       | epa300 | Finished |
| 49  |  K1004923-003   | Unknown | 46   | 200.0     | epa300       | epa300 | Finished |
| 50  |  K1004467-001   | Unknown | 47   | 200.0     | epa300       | epa300 | Finished |
| 51  |  K1004575-001   | Unknown | 48   | 200.0     | epa300       | epa300 | Finished |
| 52  |  RB             | Unknown | 49   | 200.0     | epa300       | epa300 | Finished |
| 53  |  CCV5           | Unknown | 50   | 200.0     | epa300       | epa300 | Finished |
| 54  |  CCB5           | Unknown | 51   | 200.0     | epa300       | epa300 | Finished |
| 55  |  MB 2           | Unknown | 52   | 200.0     | epa300       | epa300 | Finished |
| 56  |  CLSO4 2        | Unknown | 53   | 200.0     | epa300       | epa300 | Finished |
| 57  |  K1004470-001   | Unknown | 54   | 200.0     | epa300       | epa300 | Finished |
| 58  |  K1004470-002   | Unknown | 55   | 200.0     | epa300       | epa300 | Finished |
| 59  |  K1004470-003 | Unknown | 56   | 200.0     | epa300       | epa300 | Finished |
| 60  |  K1004470-004 | Unknown | 57   | 200.0     | epa300       | epa300 | Finished |
| 61  |  K1004470-005 | Unknown | 58   | 200.0     | epa300       | epa300 | Finished |
| 62  |  K1004470-006 | Unknown | 59   | 200.0     | epa300       | epa300 | Finished |
| 63  |  K1004470-007 | Unknown | 60   | 200.0     | epa300       | epa300 | Finished |
| 64  |  RB           | Unknown | 61   | 200.0     | epa300       | epa300 | Finished |
| 65  |  CCV6         | Unknown | 62   | 200.0     | epa300       | epa300 | Finished |
| 66  |  CCB6         | Unknown | 63   | 200.0     | epa300       | epa300 | Finished |
| 67  |  K1004470-008 | Unknown | 64   | 200.0     | epa300       | epa300 | Finished |
| 68  |  K1004470-009 | Unknown | 65   | 200.0     | epa300       | epa300 | Finished |
| 69  |  K1004470-010 | Unknown | 66   | 200.0     | epa300       | epa300 | Finished |
| 70  |  K1004470-011 | Unknown | 67   | 200.0     | epa300       | epa300 | Finished |
| 71  |  K1004470-012 | Unknown | 68   | 200.0     | epa300       | epa300 | Finished |
| 72  |  K1004470-012 | Unknown | 69   | 200.0     | epa300       | epa300 | Finished |
| 73  |  K1004470-012 | Unknown | 70   | 200.0     | epa300       | epa300 | Finished |
| 74  |  K1004470-012 | Unknown | 71   | 200.0     | epa300       | epa300 | Finished |
| 75  |  K1004470-013 | Unknown | 72   | 200.0     | epa300       | epa300 | Finished |
| 76  |  RB           | Unknown | 73   | 200.0     | epa300       | epa300 | Finished |
| 77  |  CCV7         | Unknown | 74   | 200.0     | epa300       | epa300 | Finished |
| 78  |  CCB7         | Unknown | 75   | 200.0     | epa300       | epa300 | Finished |
| 79  |  K1004470-014 | Unknown | 76   | 200.0     | epa300       | epa300 | Finished |
| 80  |  RB           | Unknown | 77   | 200.0     | epa300       | epa300 | Finished |
| 81  |  CCV8         | Unknown | 78   | 200.0     | epa300       | epa300 | Finished |
| 82  |  CCB8         | Unknown | 79   | 200.0     | epa300       | epa300 | Finished |
| 83  |  SHUTDOWN     | Unknown | 80   | 200.0     | shutdown 120 | epa300 | Finished |

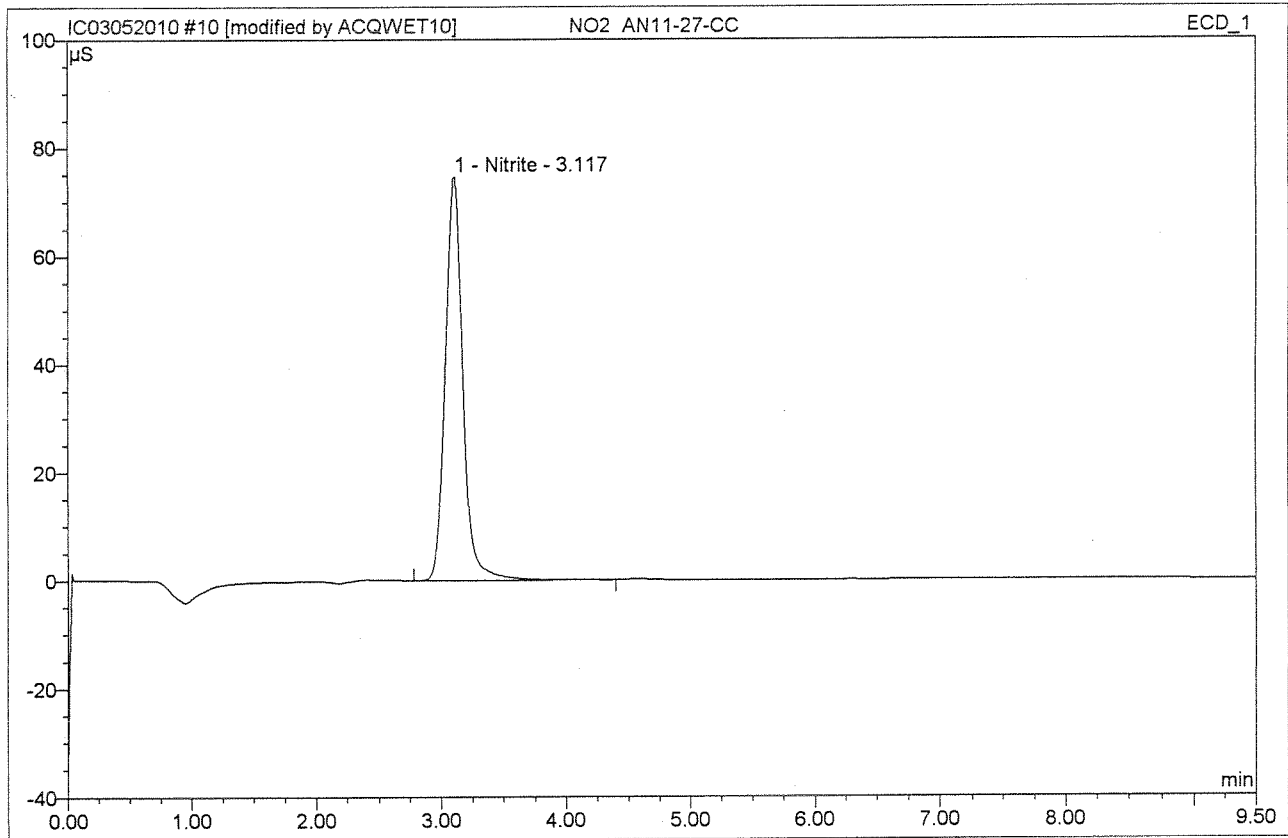
Sequence: IC03052010  
Operator: mblack

Title:  
Datasource: ACQWET10\_local  
Location: DX120A  
Timebase: DX120  
#Samples: 83

Created: 5/20/2010 8:25:24 AM by ACQWET10  
Last Update: 5/20/2010 5:52:45 PM by ACQWET10

| No. | Name   | Inj. Date/Time        | Dil. Factor | Comment    |
|-----|--|-----------------------|-------------|------------|
| 43  |  K1005160-001   | 5/20/2010 4:38:02 PM  | 2.0000      |            |
| 44  |  K1005161-001   | 5/20/2010 4:50:00 PM  | 2.0000      |            |
| 45  |  K1005161-002   | 5/20/2010 5:01:58 PM  | 2.0000      |            |
| 46  |  K1005150-001   | 5/20/2010 5:13:55 PM  | 5.0000      |            |
| 47  |  K1005150-001   | 5/20/2010 5:25:53 PM  | 200.0000    |            |
| 48  |  K1005149-002   | 5/20/2010 5:37:50 PM  | 20.0000     |            |
| 49  |  K1004923-003   | 5/20/2010 5:49:48 PM  | 5.0000      |            |
| 50  |  K1004467-001   | 5/20/2010 6:01:45 PM  | 10.0000     |            |
| 51  |  K1004575-001   | 5/20/2010 6:13:43 PM  | 2.0000      |            |
| 52  |  RB             | 5/20/2010 6:25:41 PM  | 1.0000      |            |
| 53  |  CCV5           | 5/20/2010 6:37:38 PM  | 1.0000      | CCV5       |
| 54  |  CCB5           | 5/20/2010 6:49:36 PM  | 1.0000      | CCB5       |
| 55  |  MB 2           | 5/20/2010 7:01:34 PM  | 1.0000      | MB 2       |
| 56  |  CLSO4 2        | 5/20/2010 7:13:32 PM  | 1.0000      | CLSO4 2    |
| 57  |  K1004470-001   | 5/20/2010 7:25:30 PM  | 10.0000     |            |
| 58  |  K1004470-002  | 5/20/2010 7:37:27 PM  | 1.0000      |            |
| 59  |  K1004470-003 | 5/20/2010 7:49:25 PM  | 10.0000     |            |
| 60  |  K1004470-004 | 5/20/2010 8:01:23 PM  | 2.0000      |            |
| 61  |  K1004470-005 | 5/20/2010 8:13:20 PM  | 50.0000     |            |
| 62  |  K1004470-006 | 5/20/2010 8:25:18 PM  | 20.0000     |            |
| 63  |  K1004470-007 | 5/20/2010 8:37:15 PM  | 2.0000      |            |
| 64  |  RB           | 5/20/2010 8:49:13 PM  | 1.0000      |            |
| 65  |  CCV6         | 5/20/2010 9:01:11 PM  | 1.0000      | CCV6       |
| 66  |  CCB6         | 5/20/2010 9:13:09 PM  | 1.0000      | CCB6       |
| 67  |  K1004470-008 | 5/20/2010 9:25:07 PM  | 200.0000    |            |
| 68  |  K1004470-009 | 5/20/2010 9:37:04 PM  | 20.0000     |            |
| 69  |  K1004470-010 | 5/20/2010 9:49:02 PM  | 20.0000     |            |
| 70  |  K1004470-011 | 5/20/2010 10:01:00 PM | 2.0000      |            |
| 71  |  K1004470-012 | 5/20/2010 10:12:57 PM | 50.0000     |            |
| 72  |  K1004470-012 | 5/20/2010 10:24:55 PM | 50.0000     | 4470-12D   |
| 73  |  K1004470-012 | 5/20/2010 10:36:53 PM | 50.0000     | 4470-12MS  |
| 74  |  K1004470-012 | 5/20/2010 10:48:51 PM | 50.0000     | 4470-12MSD |
| 75  |  K1004470-013 | 5/20/2010 11:00:48 PM | 200.0000    |            |
| 76  |  RB           | 5/20/2010 11:12:46 PM | 1.0000      |            |
| 77  |  CCV7         | 5/20/2010 11:24:44 PM | 1.0000      | CCV7       |
| 78  |  CCB7         | 5/20/2010 11:36:42 PM | 1.0000      | CCV7       |
| 79  |  K1004470-014 | 5/20/2010 11:48:39 PM | 50.0000     |            |
| 80  |  RB           | 5/21/2010 12:00:37 AM | 1.0000      |            |
| 81  |  CCV8         | 5/21/2010 12:12:34 AM | 1.0000      | CCV8       |
| 82  |  CCB8         | 5/21/2010 12:24:33 AM | 1.0000      | CCB8       |
| 83  |  SHUTDOWN     | 5/21/2010 12:36:30 AM | 1.0000      |            |

|                          |                |                   |         |
|--------------------------|----------------|-------------------|---------|
| <b>10 NO2 AN11-27-CC</b> |                |                   |         |
| <b>NO2</b>               |                |                   |         |
| Sample Name:             | NO2 AN11-27-CC | Injection Volume: | 200.0   |
| Vial Number:             | 10             | Channel:          | ECD_1   |
| Sample Type:             | unknown        | Wavelength:       | n.a.    |
| Control Program:         | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method:         | epa300         | Dilution Factor:  | 25.0000 |
| Recording Time:          | 5/20/2010 9:18 | Sample Weight:    | 1.0000  |
| Run Time (min):          | 9.50           | Sample Amount:    | 1.0000  |



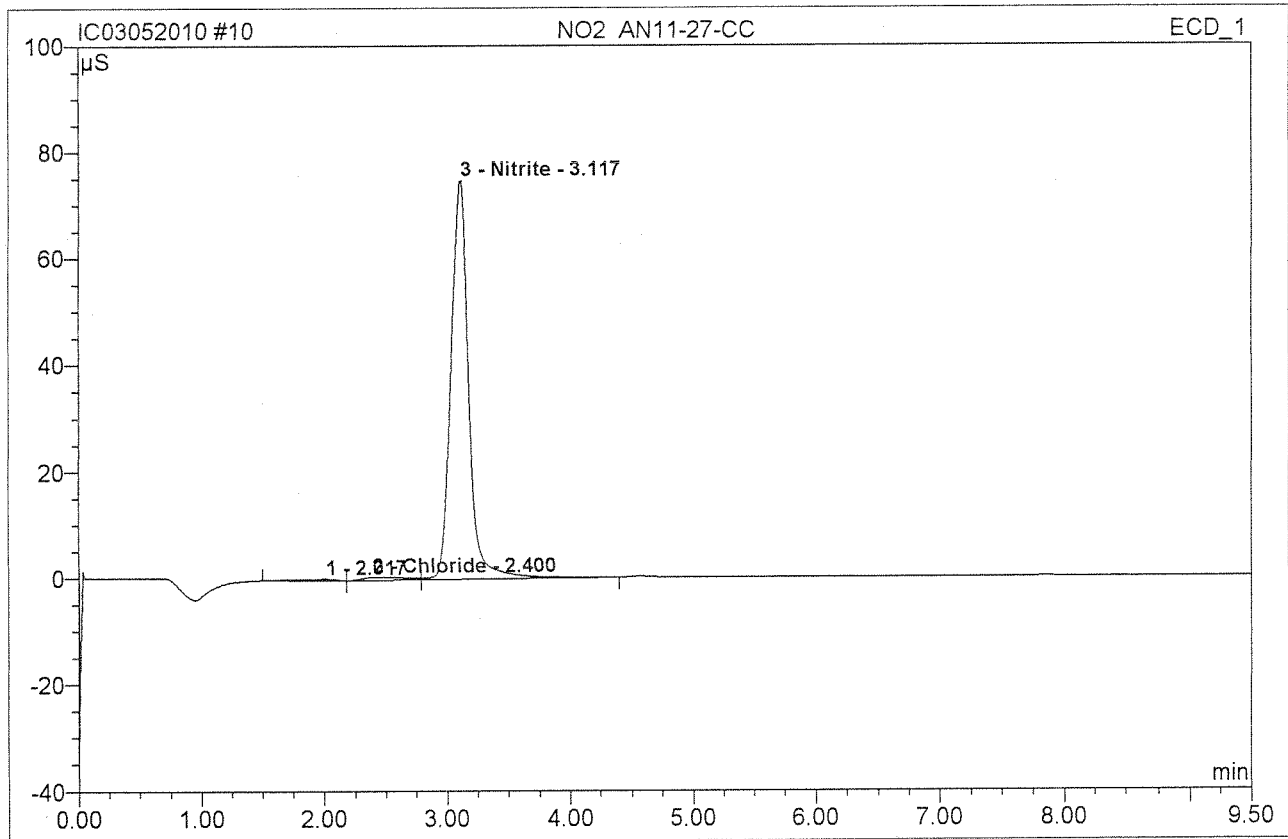
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount  | Type      |
|---------------|-----------------|-----------|--------------|----------------|---------------|---------|-----------|
| 1             | 3.12            | Nitrite   | 74.628       | 12.169         | 100.00        | 105.368 | 105% BMB* |
| <b>Total:</b> |                 |           | 74.628       | 12.169         | 100.00        | 105.368 |           |

*Handwritten signature and date: 5/25/10*

*Handwritten initials: ACQWET10*

MAY 20 2010

|                          |                |                   |         |
|--------------------------|----------------|-------------------|---------|
| <b>10 NO2 AN11-27-CC</b> |                |                   |         |
| <b>NO2</b>               |                |                   |         |
| Sample Name:             | NO2 AN11-27-CC | Injection Volume: | 200.0   |
| Vial Number:             | 10             | Channel:          | ECD_1   |
| Sample Type:             | unknown        | Wavelength:       | n.a.    |
| Control Program:         | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method:         | epa300         | Dilution Factor:  | 25.0000 |
| Recording Time:          | 5/20/2010 9:18 | Sample Weight:    | 1.0000  |
| Run Time (min):          | 9.50           | Sample Amount:    | 1.0000  |



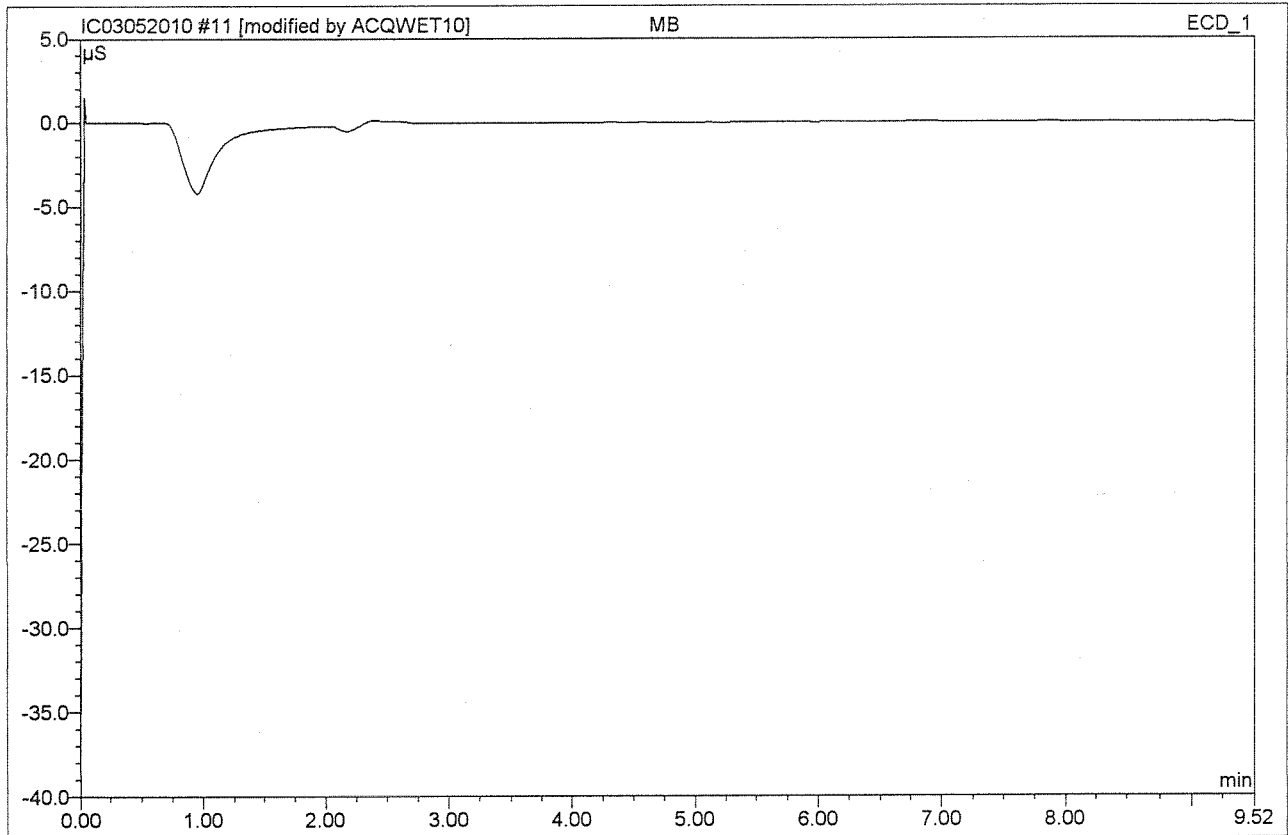
| No.           | Ret.Time min | Peak Name | Height μS     | Area μS*min   | Rel.Area %    | Amount         | Type |
|---------------|--------------|-----------|---------------|---------------|---------------|----------------|------|
| 1             | 2.02         | n.a.      | 0.313         | 0.125         | 0.97          | n.a.           | BMb  |
| 2             | 2.40         | Chloride  | 0.607         | 0.249         | 1.94          | 3.991          | bM   |
| 3             | 3.12         | Nitrite   | 74.912        | 12.459        | 97.09         | 107.876        | MB   |
| <b>Total:</b> |              |           | <b>75.832</b> | <b>12.833</b> | <b>100.00</b> | <b>111.866</b> |      |

Before

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|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52           | Sample Amount:    | 1.0000 |



| No.    | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

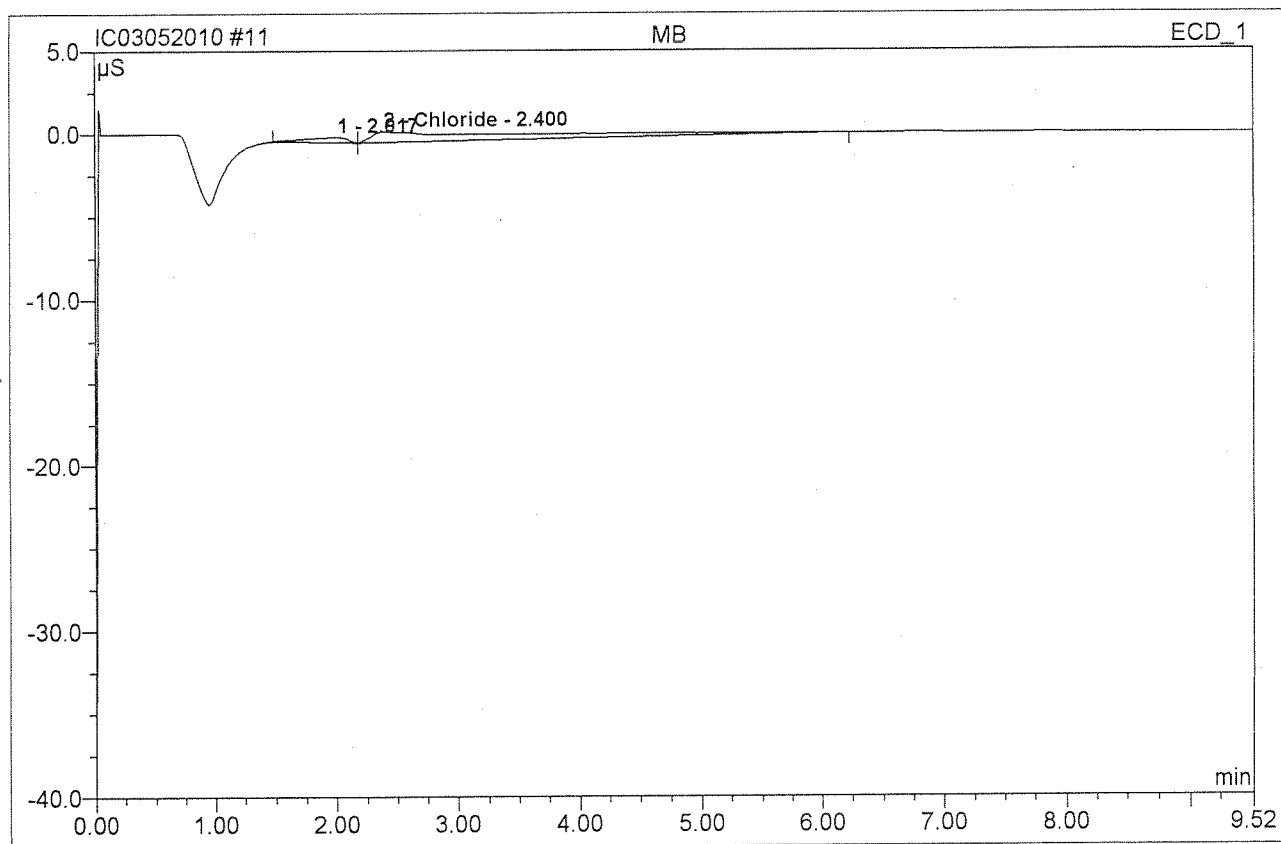
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MB

*MB 5/25/10*

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|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>11 MB</b>     |                |                   |        |
| <b>MB</b>        |                |                   |        |
| Sample Name:     | MB             | Injection Volume: | 200.0  |
| Vial Number:     | 11             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.02             | n.a.      | 0.302        | 0.125          | 11.44          | n.a.   | BMB  |
| 2             | 2.40             | Chloride  | 0.632        | 0.968          | 88.56          | 0.621  | bMB  |
| <b>Total:</b> |                  |           | 0.934        | 1.093          | 100.00         | 0.621  |      |

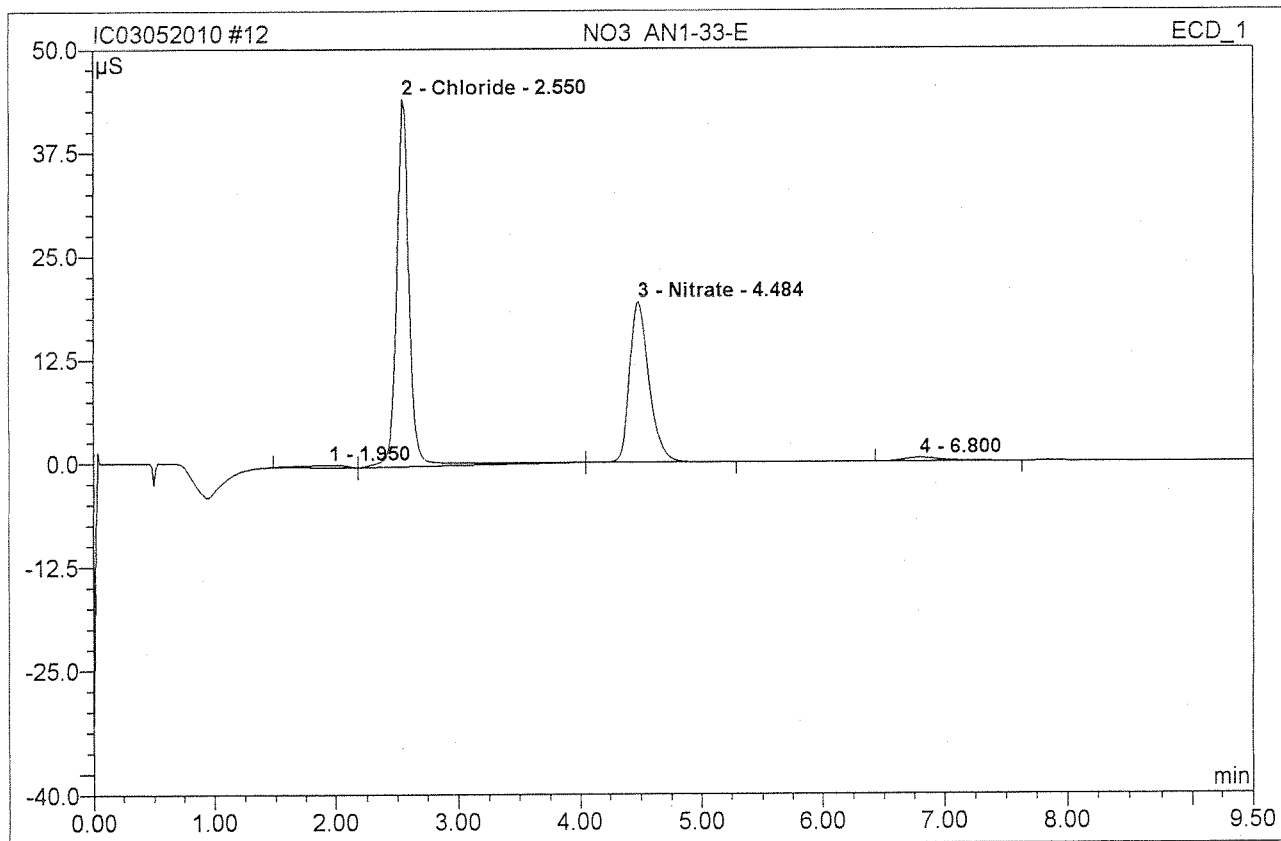
Before

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# 12 NO3 AN1-33-E

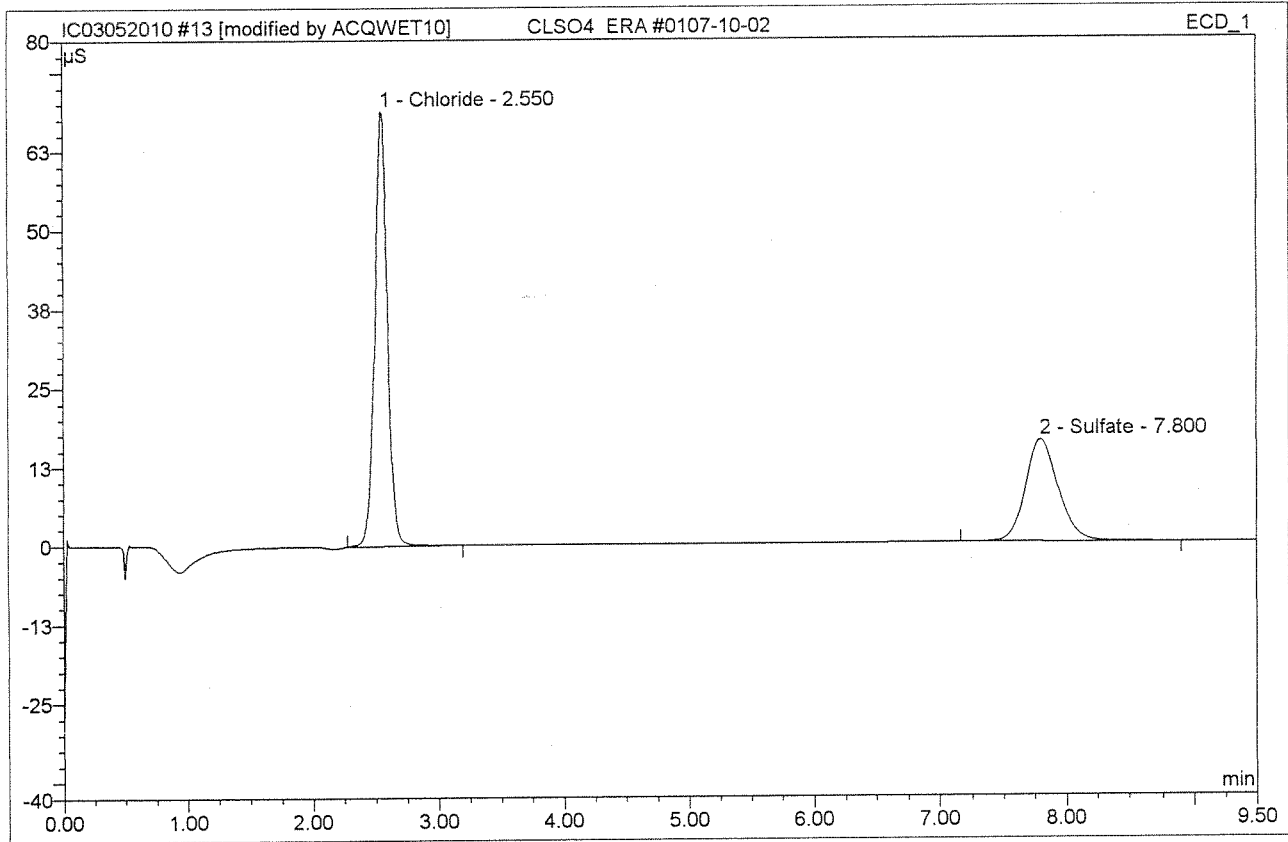
## NO3

|                  |                |                   |         |
|------------------|----------------|-------------------|---------|
| Sample Name:     | NO3 AN1-33-E   | Injection Volume: | 200.0   |
| Vial Number:     | 11             | Channel:          | ECD_1   |
| Sample Type:     | unknown        | Wavelength:       | n.a.    |
| Control Program: | epa300         | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300         | Dilution Factor:  | 20.0000 |
| Recording Time:  | 5/20/2010 9:42 | Sample Weight:    | 1.0000  |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000  |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount                | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------------------|------|
| 1             | 1.95            | n.a.      | 0.316        | 0.135          | 1.44          | n.a.                  | BMB  |
| 2             | 2.55            | Chloride  | 44.339       | 5.399          | 57.79         | 69.233                | bMB  |
| 3             | 4.48            | Nitrate   | 19.325       | 3.641          | 38.97         | 19.766 <sup>94?</sup> | bMB  |
| 4             | 6.80            | n.a.      | 0.454        | 0.168          | 1.80          | n.a.                  | BMB  |
| <b>Total:</b> |                 |           | 64.435       | 9.342          | 100.00        | 88.999                |      |

|                                 |                       |                   |        |
|---------------------------------|-----------------------|-------------------|--------|
| <b>13 CLSO4 ERA #0107-10-02</b> |                       |                   |        |
| <b>CLSO4</b>                    |                       |                   |        |
| Sample Name:                    | CLSO4 ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:                    | 12                    | Channel:          | ECD_1  |
| Sample Type:                    | unknown               | Wavelength:       | n.a.   |
| Control Program:                | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method:                | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:                 | 5/20/2010 9:54        | Sample Weight:    | 1.0000 |
| Run Time (min):                 | 9.50                  | Sample Amount:    | 1.0000 |



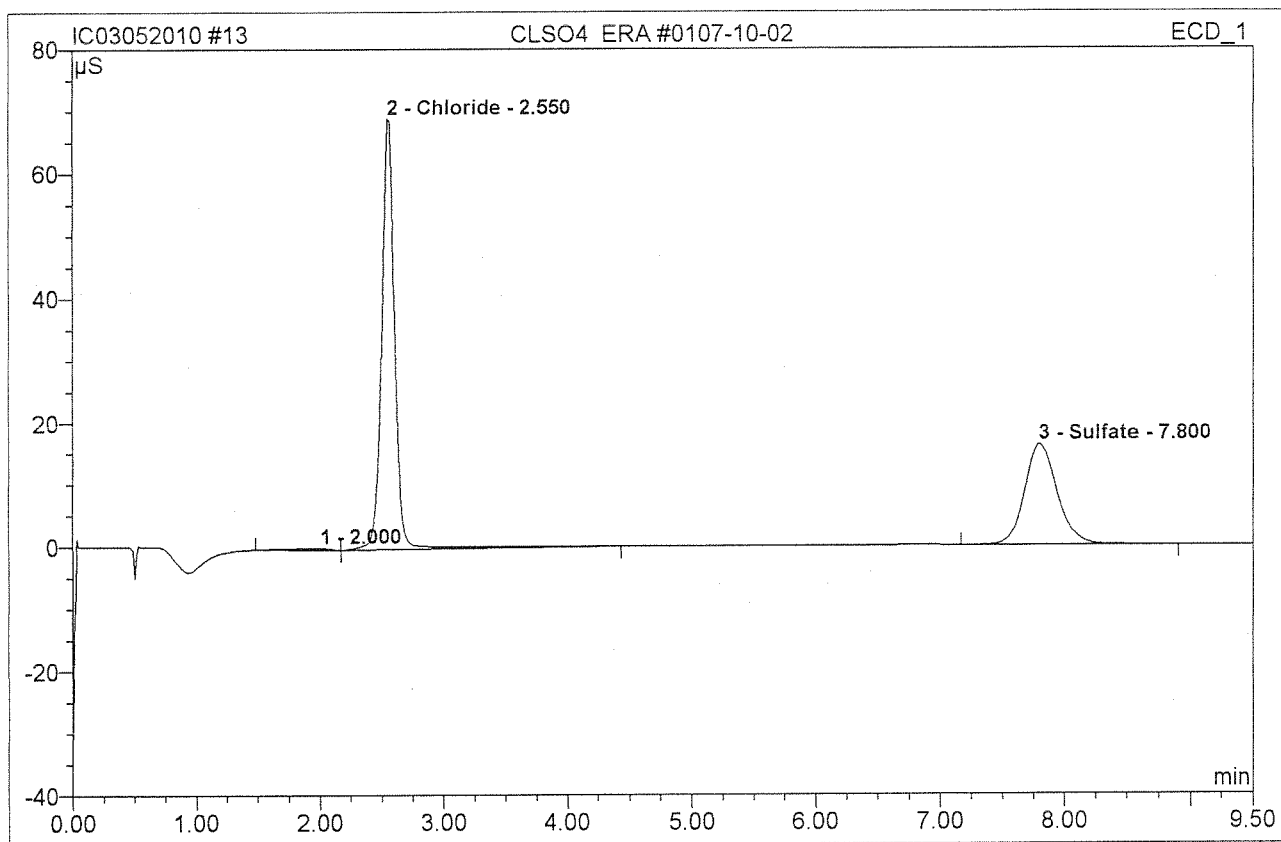
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount    | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|-----------|------|
| 1             | 2.55             | Chloride  | 68.863       | 8.035          | 62.04          | 5.1521632 | BMB* |
| 2             | 7.80             | Sulfate   | 16.224       | 4.917          | 37.96          | 4.9961002 | BMB  |
| <b>Total:</b> |                  |           | 85.087       | 12.952         | 100.00         | 10.149    |      |

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### 13 CLSO4 ERA #0107-10-02

#### CLSO4

|                  |                       |                   |        |
|------------------|-----------------------|-------------------|--------|
| Sample Name:     | CLSO4 ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:     | 12                    | Channel:          | ECD_1  |
| Sample Type:     | unknown               | Wavelength:       | n.a.   |
| Control Program: | epa300                | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300                | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:54        | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50                  | Sample Amount:    | 1.0000 |

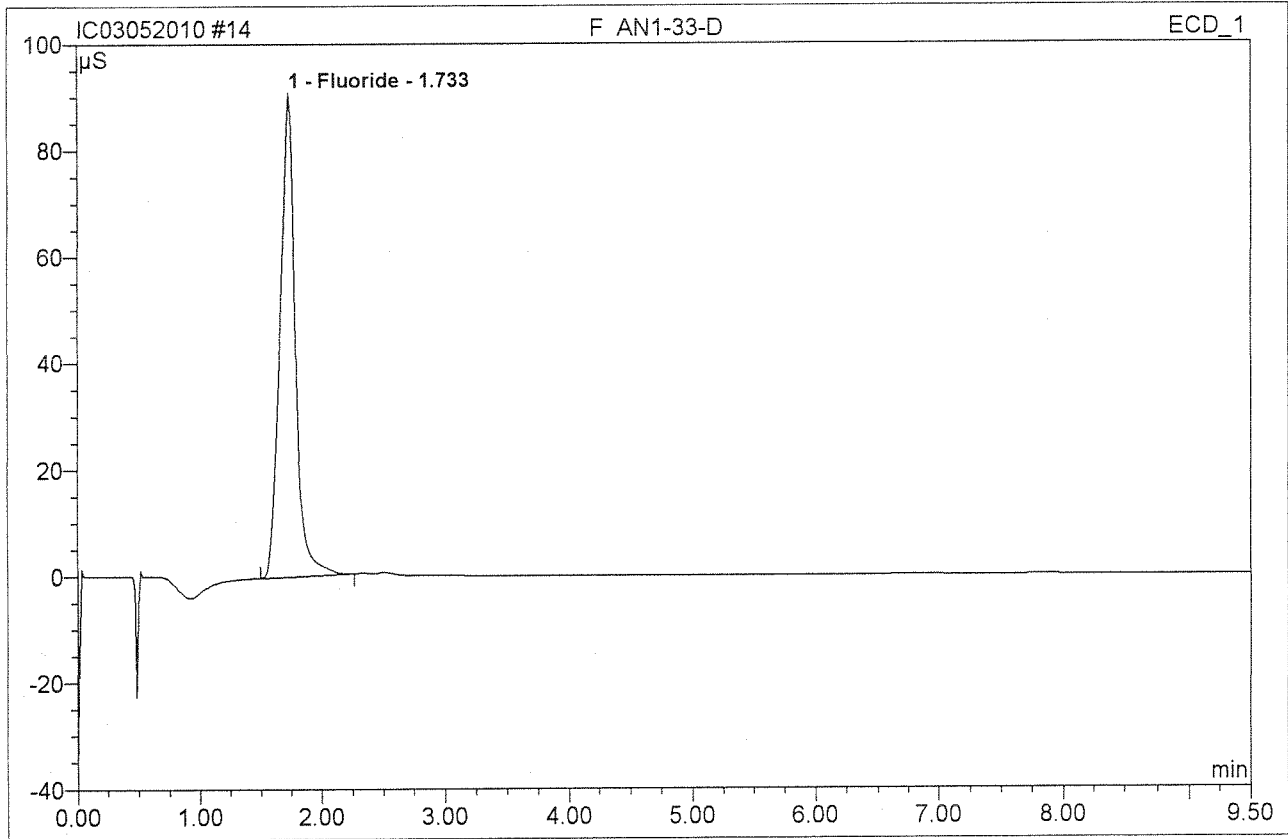


| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 2.00         | n.a.      | 0.310     | 0.125       | 0.93       | n.a.   | BMB  |
| 2             | 2.55         | Chloride  | 69.169    | 8.481       | 62.72      | 5.438  | bMB  |
| 3             | 7.80         | Sulfate   | 16.224    | 4.917       | 36.36      | 4.996  | BMB  |
| <b>Total:</b> |              |           | 85.703    | 13.523      | 100.00     | 10.434 |      |

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|                      |                 |                   |        |
|----------------------|-----------------|-------------------|--------|
| <b>14 F AN1-33-D</b> |                 |                   |        |
| <b>F</b>             |                 |                   |        |
| Sample Name:         | F AN1-33-D      | Injection Volume: | 200.0  |
| Vial Number:         | 13              | Channel:          | ECD_1  |
| Sample Type:         | unknown         | Wavelength:       | n.a.   |
| Control Program:     | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:     | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:      | 5/20/2010 10:06 | Sample Weight:    | 1.0000 |
| Run Time (min):      | 9.50            | Sample Amount:    | 1.0000 |

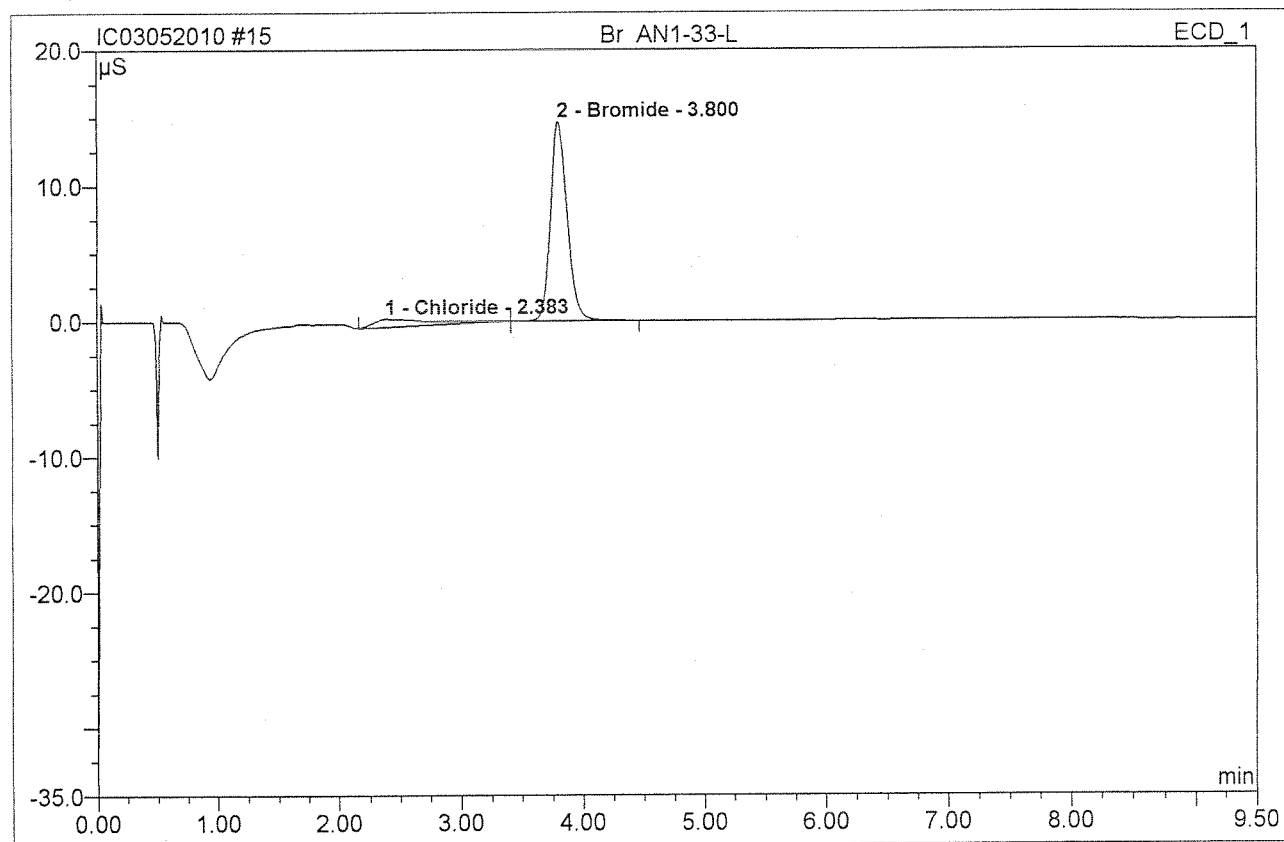


| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount        | Type |
|---------------|--------------|-----------|-----------|-------------|------------|---------------|------|
| 1             | 1.73         | Fluoride  | 90.907    | 13.326      | 100.00     | 13.929 (0.3%) | BMB  |
| <b>Total:</b> |              |           | 90.907    | 13.326      | 100.00     | 13.929        |      |



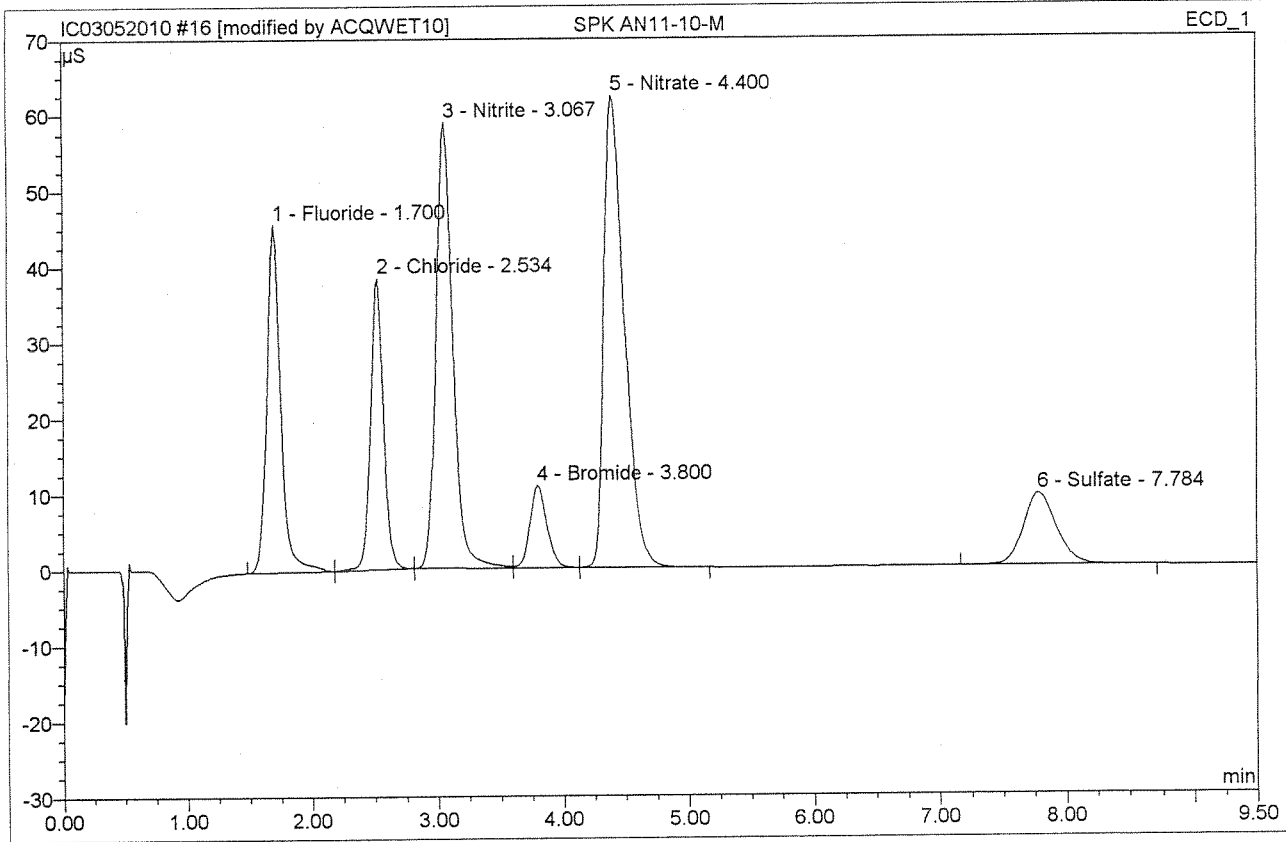
**15 Br AN1-33-L****Br**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | Br AN1-33-L     | Injection Volume: | 200.0  |
| Vial Number:     | 14              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:18 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount       | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------------|------|
| 1             | 2.38             | Chloride  | 0.595        | 0.314          | 11.87          | 0.201        | BMB  |
| 2             | 3.80             | Bromide   | 14.672       | 2.329          | 88.13          | 4.346 (0.9%) | bMB  |
| <b>Total:</b> |                  |           | 15.267       | 2.642          | 100.00         | 4.547        |      |

|                         |                 |                   |        |
|-------------------------|-----------------|-------------------|--------|
| <b>16 SPK AN11-10-M</b> |                 |                   |        |
| <b>SPK</b>              |                 |                   |        |
| Sample Name:            | SPK AN11-10-M   | Injection Volume: | 200.0  |
| Vial Number:            | 15              | Channel:          | ECD_1  |
| Sample Type:            | unknown         | Wavelength:       | n.a.   |
| Control Program:        | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:        | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:         | 5/20/2010 10:30 | Sample Weight:    | 1.0000 |
| Run Time (min):         | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.70             | Fluoride  | 45.876       | 5.850          | 16.35          | 3.057  | BMb  |
| 2             | 2.53             | Chloride  | 38.469       | 4.542          | 12.70          | 2.912  | bMb  |
| 3             | 3.07             | Nitrite   | 58.803       | 9.013          | 25.20          | 3.122  | bM * |
| 4             | 3.80             | Bromide   | 10.919       | 1.705          | 4.77           | 3.182  | Mb*  |
| 5             | 4.40             | Nitrate   | 62.250       | 11.747         | 32.84          | 3.189  | bMB  |
| 6             | 7.78             | Sulfate   | 9.510        | 2.915          | 8.15           | 2.962  | BMB  |
| <b>Total:</b> |                  |           | 225.828      | 35.772         | 100.00         | 18.424 |      |

TV=3.00

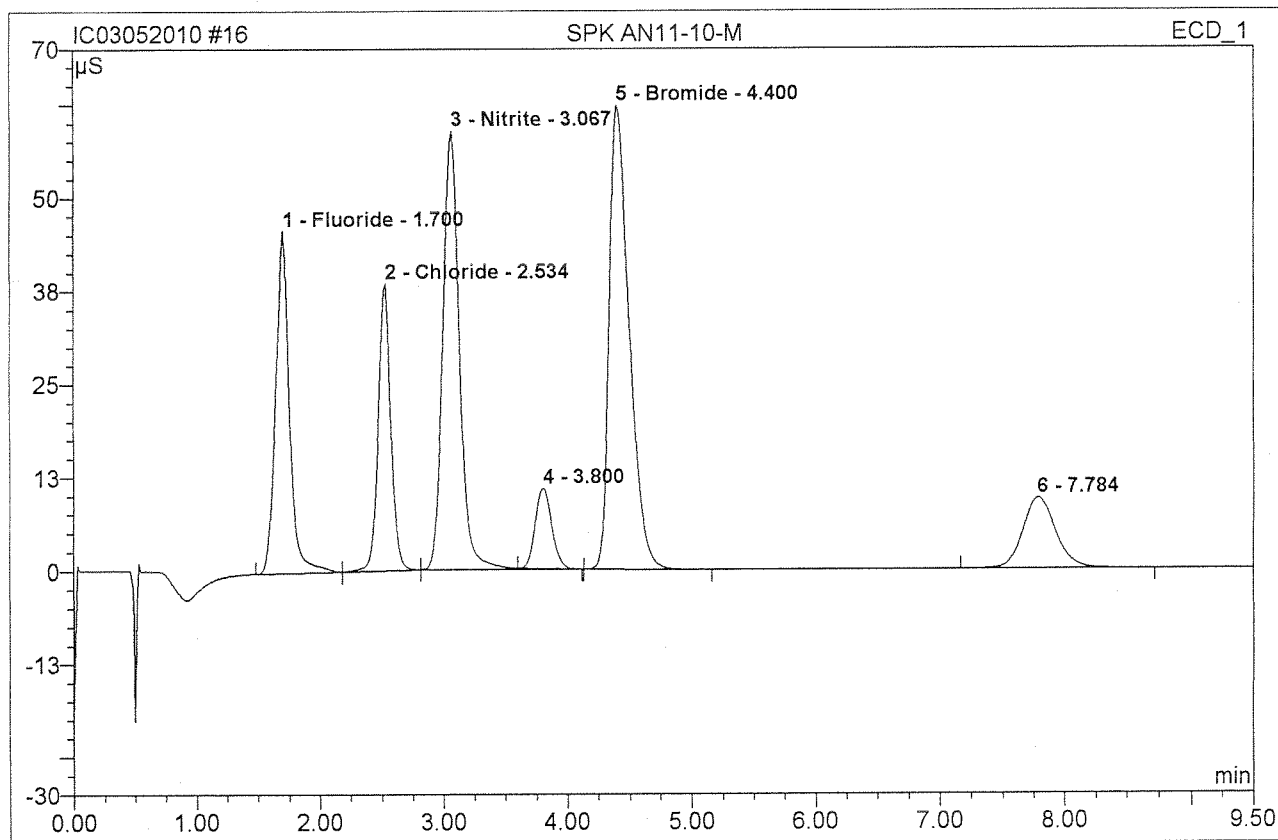
After Initials ME

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**16 SPK AN11-10-M****SPK**

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | SPK AN11-10-M   | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:30 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|-------------------------|--------------------------------------|----------------|--------|------|
| 1             | 1.70             | Fluoride  | 45.876                  | 5.850                                | 16.35          | 3.057  | BMb  |
| 2             | 2.53             | Chloride  | 38.469                  | 4.542                                | 12.70          | 2.912  | bMb  |
| 3             | 3.07             | Nitrite   | 58.803                  | 9.060                                | 25.33          | 3.138  | bMb  |
| 4             | 3.80             | n.a.      | 10.810                  | 1.659                                | 4.64           | n.a.   | Rd   |
| 5             | 4.40             | Bromide   | 62.250                  | 11.747                               | 32.84          | 21.924 | bMB  |
| 6             | 7.78             | n.a.      | 9.510                   | 2.915                                | 8.15           | n.a.   | BMB  |
| <b>Total:</b> |                  |           | 225.718                 | 35.772                               | 100.00         | 31.031 |      |

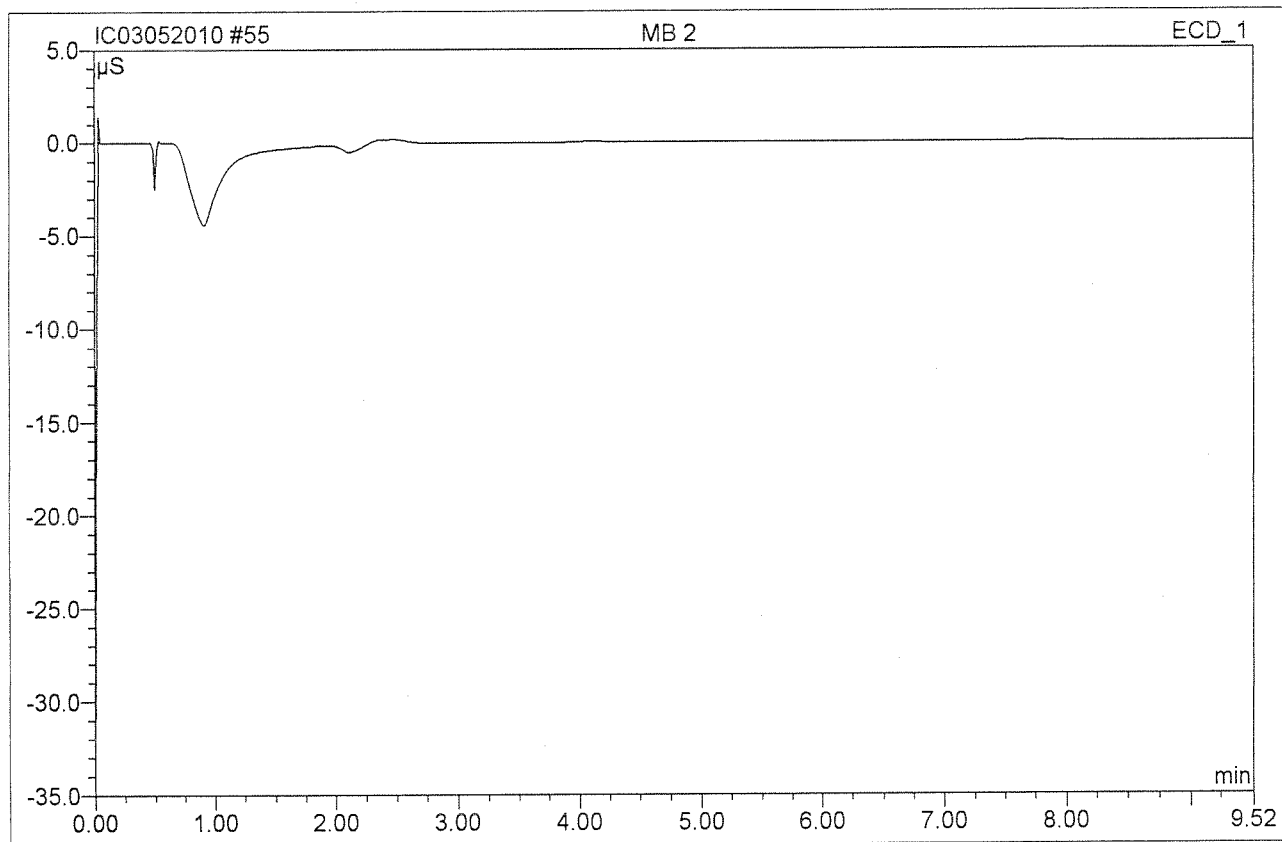
Before

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# 55 MB 2

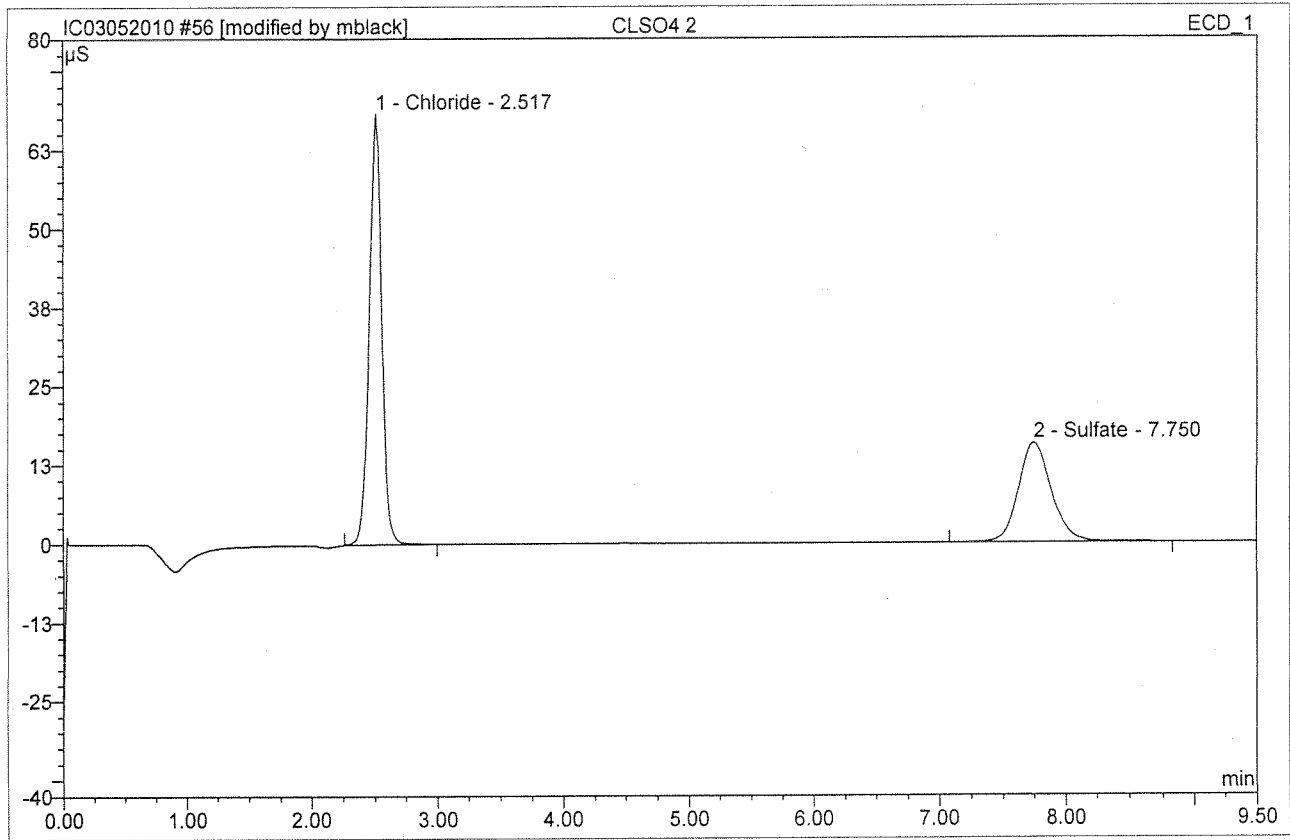
## MB 2

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | MB 2            | Injection Volume: | 200.0  |
| Vial Number:     | 52              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 19:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.52            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

|                   |                 |                   |        |
|-------------------|-----------------|-------------------|--------|
| <b>56 CLSO4 2</b> |                 |                   |        |
| <b>CLSO4 2</b>    |                 |                   |        |
| Sample Name:      | CLSO4 2         | Injection Volume: | 200.0  |
| Vial Number:      | 53              | Channel:          | ECD_1  |
| Sample Type:      | unknown         | Wavelength:       | n.a.   |
| Control Program:  | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:  | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:   | 5/20/2010 19:13 | Sample Weight:    | 1.0000 |
| Run Time (min):   | 9.50            | Sample Amount:    | 1.0000 |



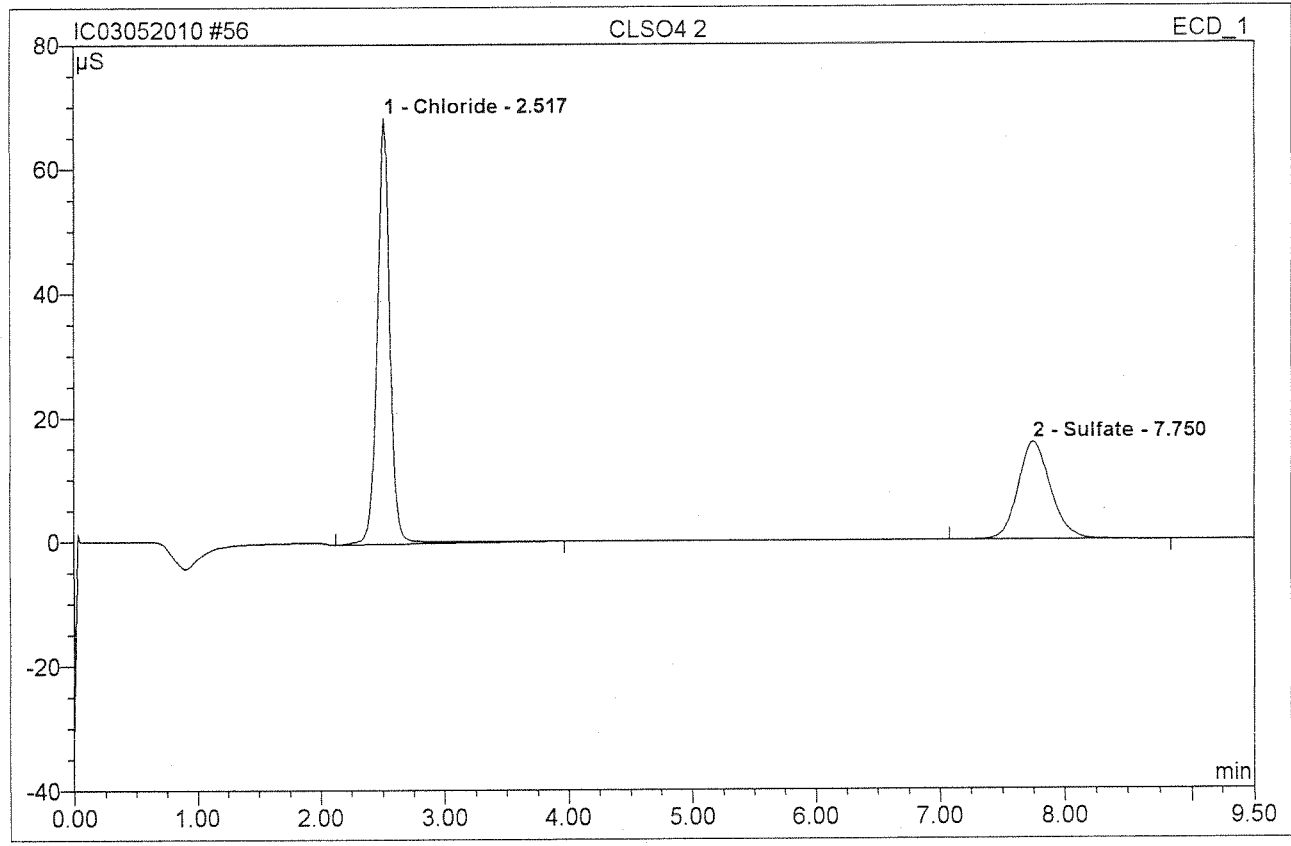
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount   | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|----------|------|
| 1             | 2.52             | Chloride  | 68.281       | 7.836          | 62.20          | 5.02510% | BMB* |
| 2             | 7.75             | Sulfate   | 15.768       | 4.763          | 37.80          | 4.84097% | BMB  |
| <b>Total:</b> |                  |           | 84.049       | 12.599         | 100.00         | 9.864    |      |

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5/25/10

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|                   |                 |                   |        |
|-------------------|-----------------|-------------------|--------|
| <b>56 CLSO4 2</b> |                 |                   |        |
| <b>CLSO4 2</b>    |                 |                   |        |
| Sample Name:      | CLSO4 2         | Injection Volume: | 200.0  |
| Vial Number:      | 53              | Channel:          | ECD_1  |
| Sample Type:      | unknown         | Wavelength:       | n.a.   |
| Control Program:  | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:  | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:   | 5/20/2010 19:13 | Sample Weight:    | 1.0000 |
| Run Time (min):   | 9.50            | Sample Amount:    | 1.0000 |



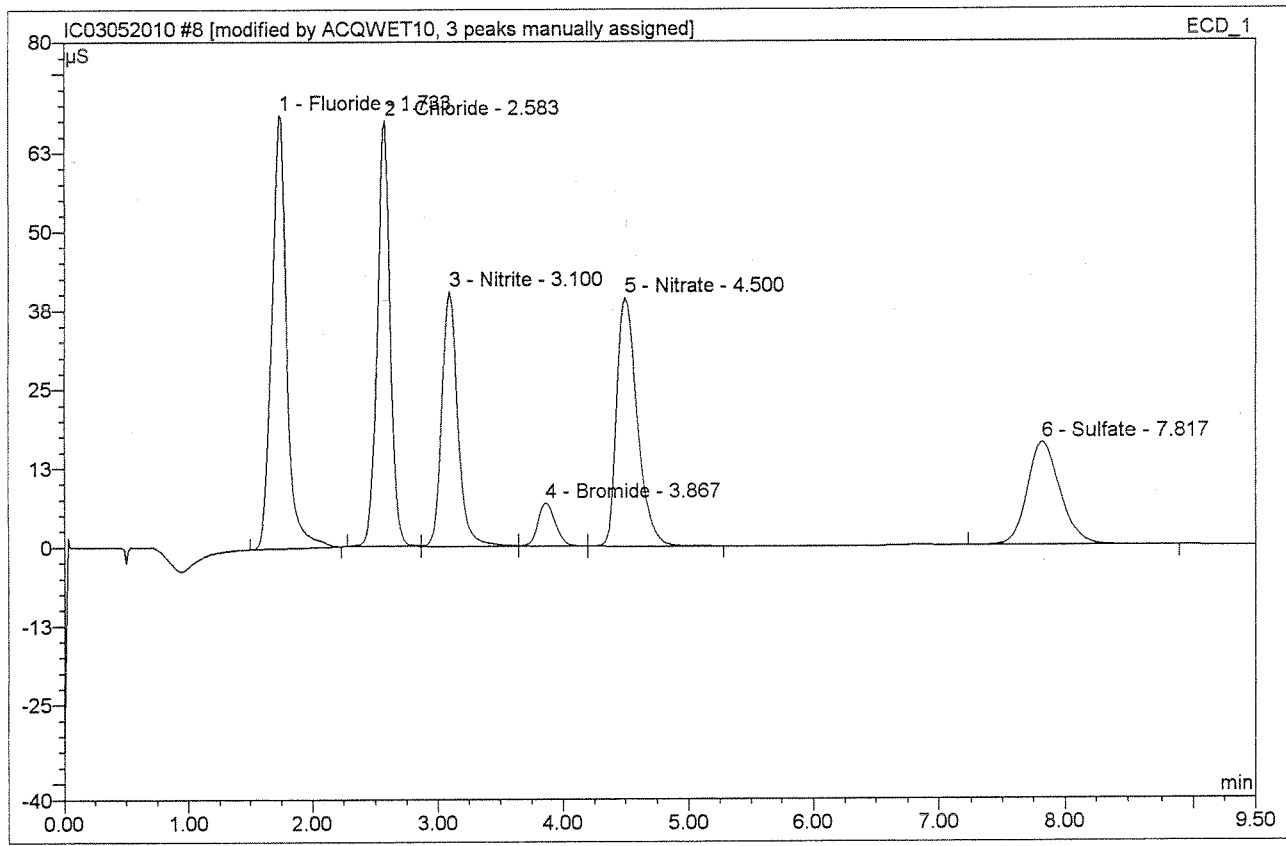
| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.52             | Chloride  | 68.621       | 8.218          | 63.31         | 5.270  | BMB  |
| 2             | 7.75             | Sulfate   | 15.768       | 4.763          | 36.69         | 4.840  | BMB  |
| <b>Total:</b> |                  |           | 84.388       | 12.981         | 100.00        | 10.109 |      |

Before

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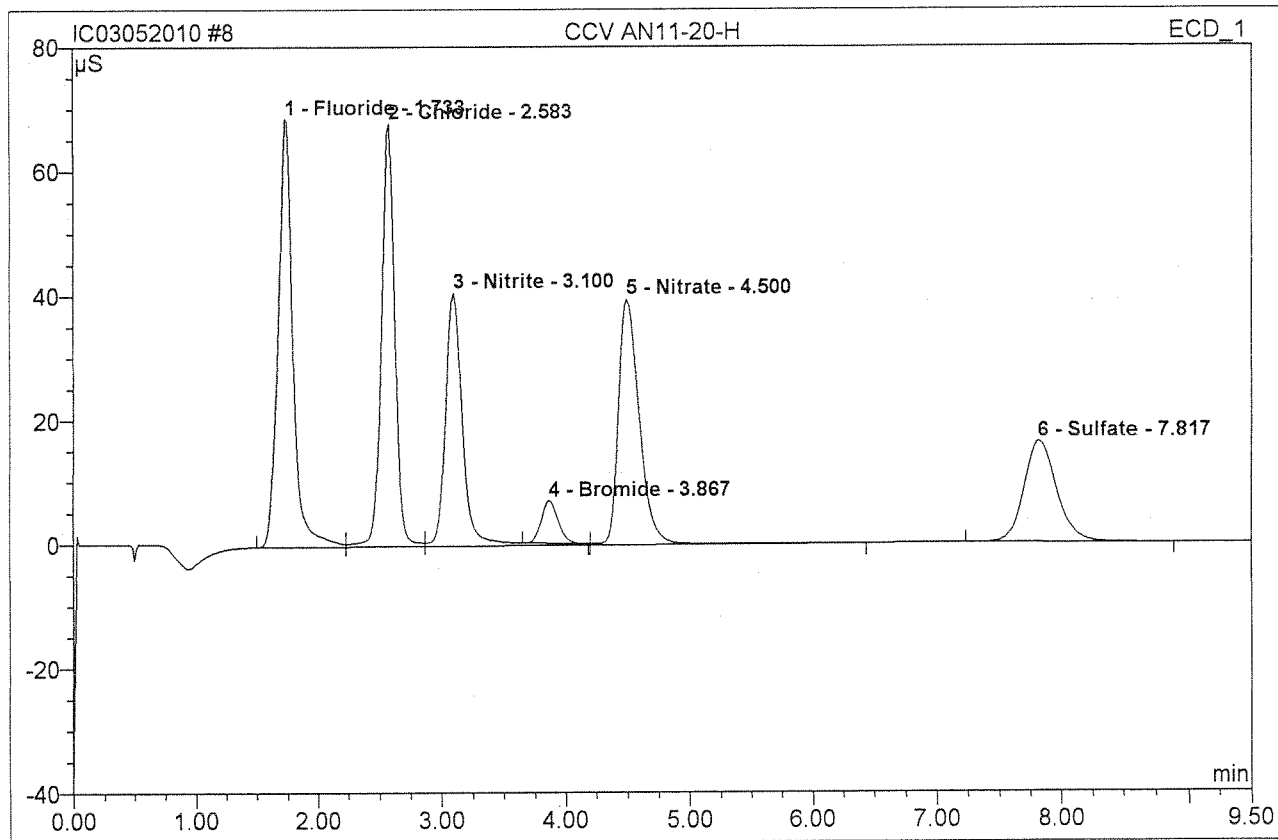
|                        |                |                   |        |
|------------------------|----------------|-------------------|--------|
| <b>8 CCV AN11-20-H</b> |                |                   |        |
| <b>CCV1</b>            |                |                   |        |
| Sample Name:           | CCV AN11-20-H  | Injection Volume: | 200.0  |
| Vial Number:           | 8              | Channel:          | ECD_1  |
| Sample Type:           | unknown        | Wavelength:       | n.a.   |
| Control Program:       | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:        | 5/20/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount    | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------|------|
| 1             | 1.73            | Fluoride  | 68.651       | 9.603          | 25.90         | 5.019100% | BMB* |
| 2             | 2.58            | Chloride  | 67.491       | 7.989          | 21.55         | 5.123162% | BM*  |
| 3             | 3.10            | Nitrite   | 40.257       | 5.982          | 16.13         | 2.072104% | M*   |
| 4             | 3.87            | Bromide   | 6.870        | 1.092          | 2.95          | 2.039162% | M**  |
| 5             | 4.50            | Nitrate   | 39.326       | 7.441          | 20.07         | 2.020101% | MB** |
| 6             | 7.82            | Sulfate   | 16.292       | 4.974          | 13.41         | 5.055161% | BMB^ |
| <b>Total:</b> |                 |           | 238.888      | 37.082         | 100.00        | 21.327    |      |

After Initials MB *JA* 5/25/10  
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|                        |                |                   |        |
|------------------------|----------------|-------------------|--------|
| <b>8 CCV AN11-20-H</b> |                |                   |        |
| <b>CCV1</b>            |                |                   |        |
| Sample Name:           | CCV AN11-20-H  | Injection Volume: | 200.0  |
| Vial Number:           | 8              | Channel:          | ECD_1  |
| Sample Type:           | unknown        | Wavelength:       | n.a.   |
| Control Program:       | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:       | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:        | 5/20/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):        | 9.50           | Sample Amount:    | 1.0000 |

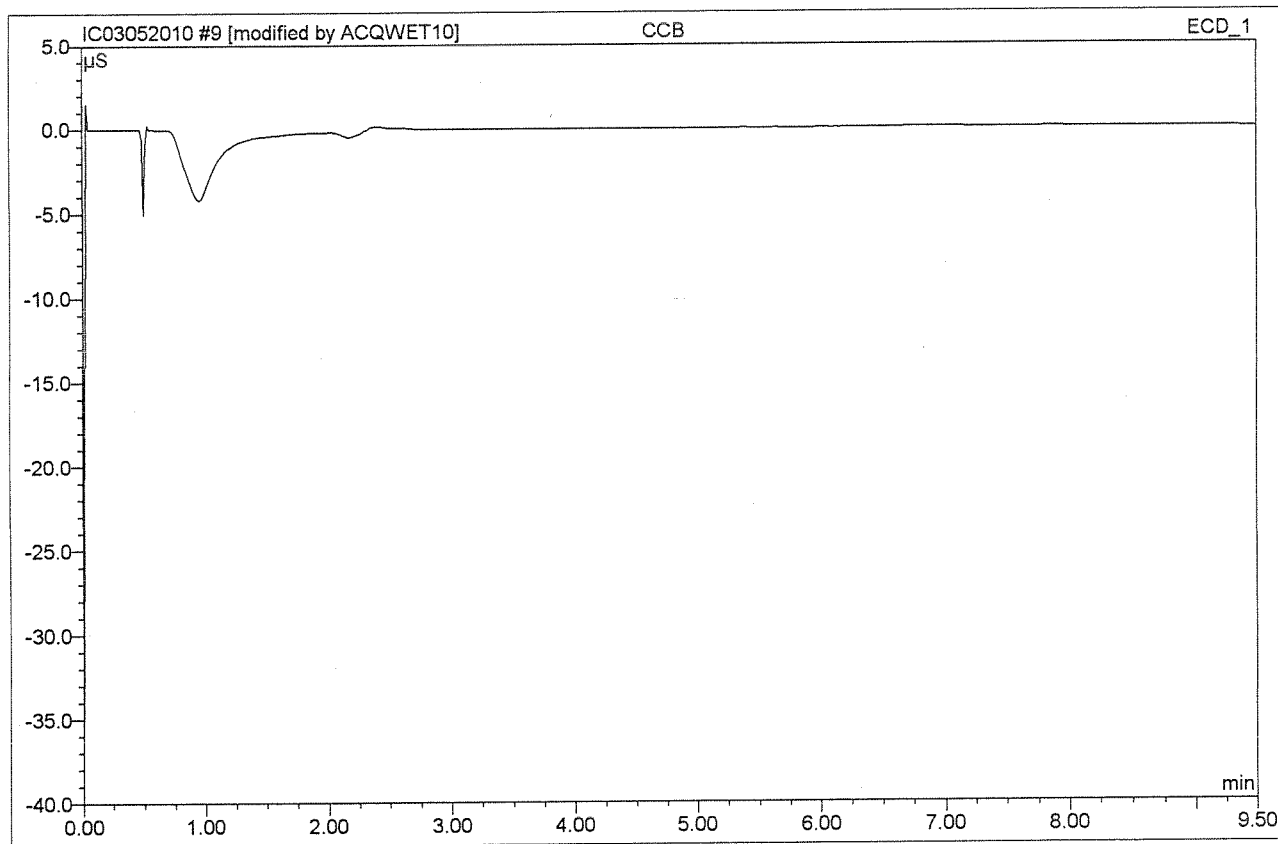


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.73            | Fluoride  | 68.792       | 9.765          | 25.54         | 5.104  | BM   |
| 2             | 2.58            | Chloride  | 67.960       | 8.287          | 21.68         | 5.314  | M    |
| 3             | 3.10            | Nitrite   | 40.654       | 6.446          | 16.86         | 2.233  | M    |
| 4             | 3.87            | Bromide   | 6.836        | 1.078          | 2.82          | 2.012  | Rd   |
| 5             | 4.50            | Nitrate   | 39.529       | 7.678          | 20.08         | 2.084  | MB   |
| 6             | 7.82            | Sulfate   | 16.292       | 4.974          | 13.01         | 5.055  | BMB  |
| <b>Total:</b> |                 |           | 240.065      | 38.229         | 100.00        | 21.801 |      |

Before

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|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>9 CCB</b>     |                |                   |        |
| <b>CCB1</b>      |                |                   |        |
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:06 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

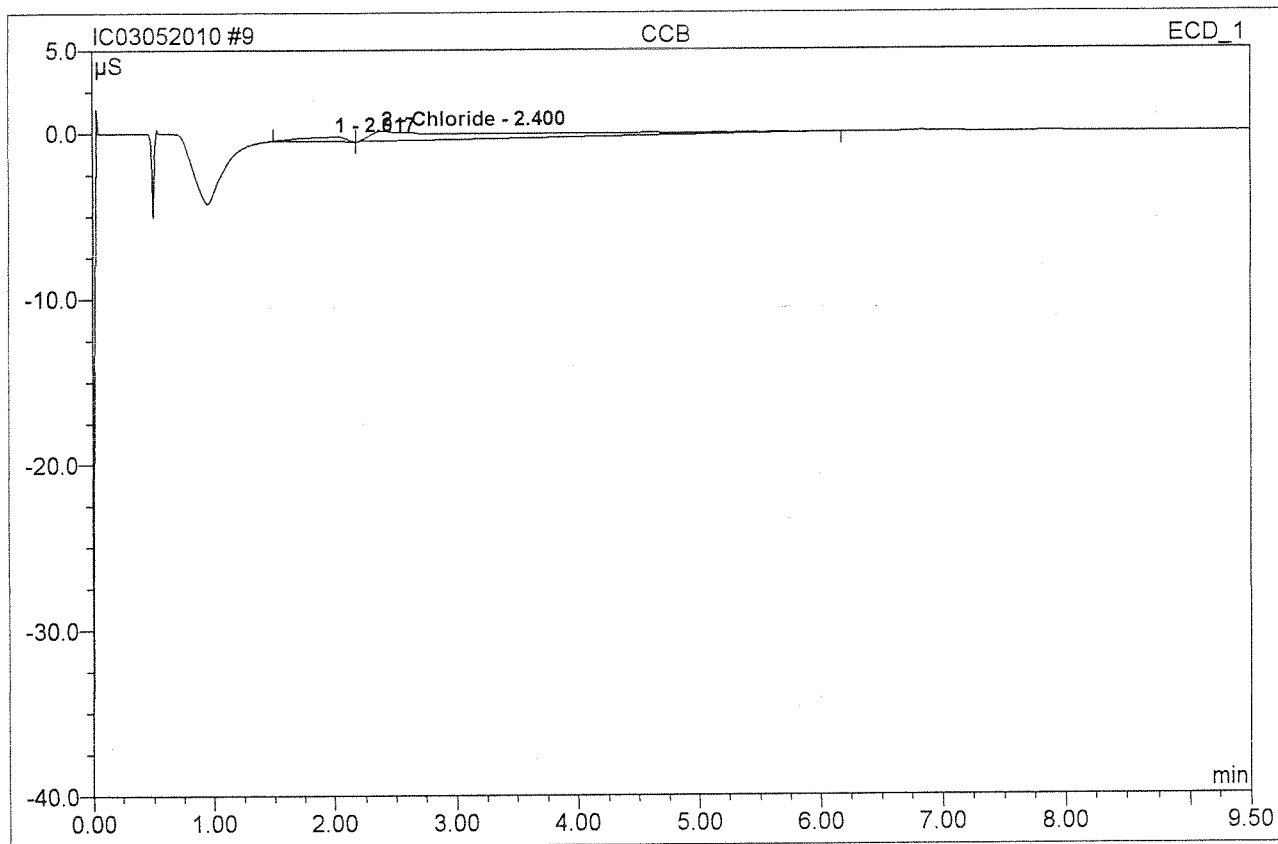
Alter Initials

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MAY 20 2010

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|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>9 CCB</b>     |                |                   |        |
| <b>CCB1</b>      |                |                   |        |
| Sample Name:     | CCB            | Injection Volume: | 200.0  |
| Vial Number:     | 9              | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 9:06 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |

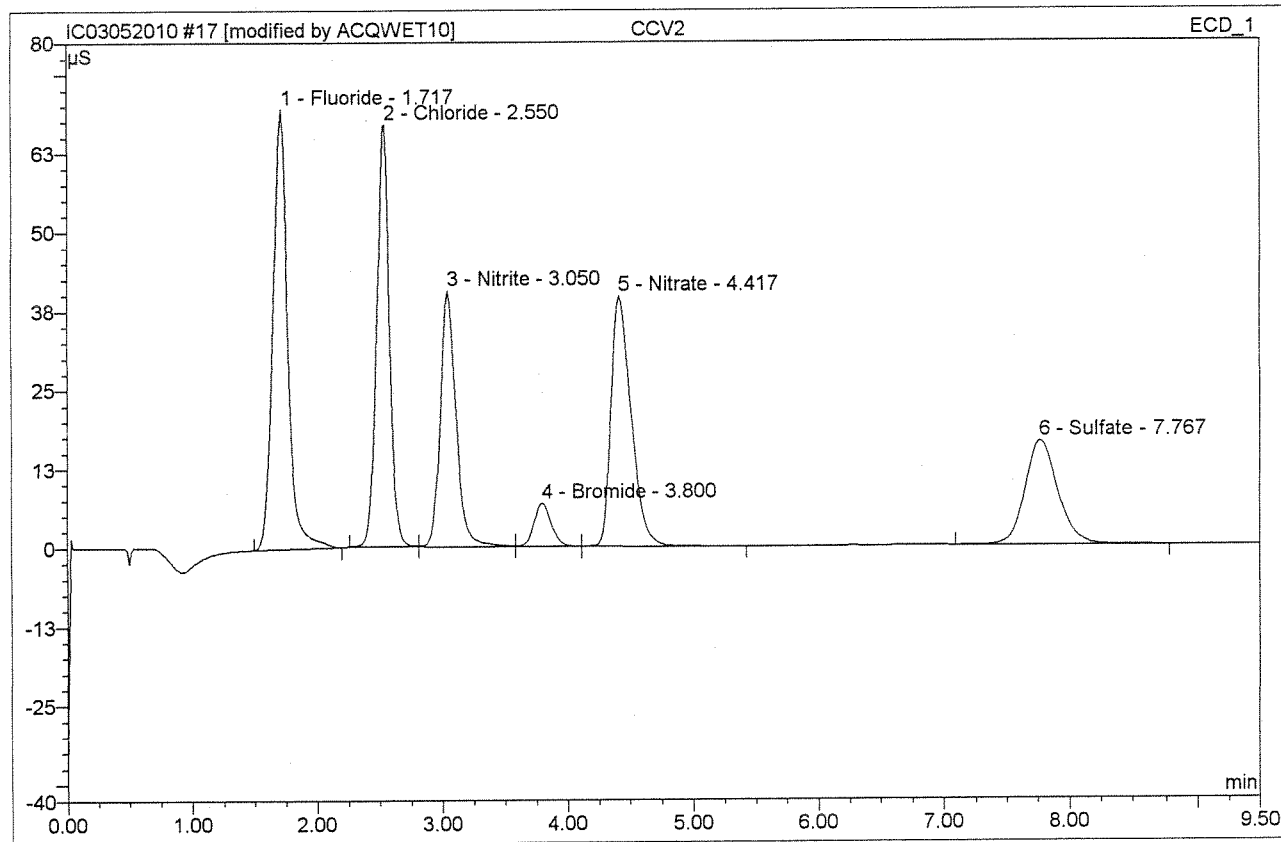


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 2.02             | n.a.      | 0.294        | 0.123          | 11.64          | n.a.   | BMb  |
| 2             | 2.40             | Chloride  | 0.611        | 0.937          | 88.36          | 0.601  | bMB  |
| <b>Total:</b> |                  |           | 0.905        | 1.060          | 100.00         | 0.601  |      |

Before

MAY 20 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>17 CCV2</b>   |                 |                   |        |
| <b>CCV2</b>      |                 |                   |        |
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:42 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



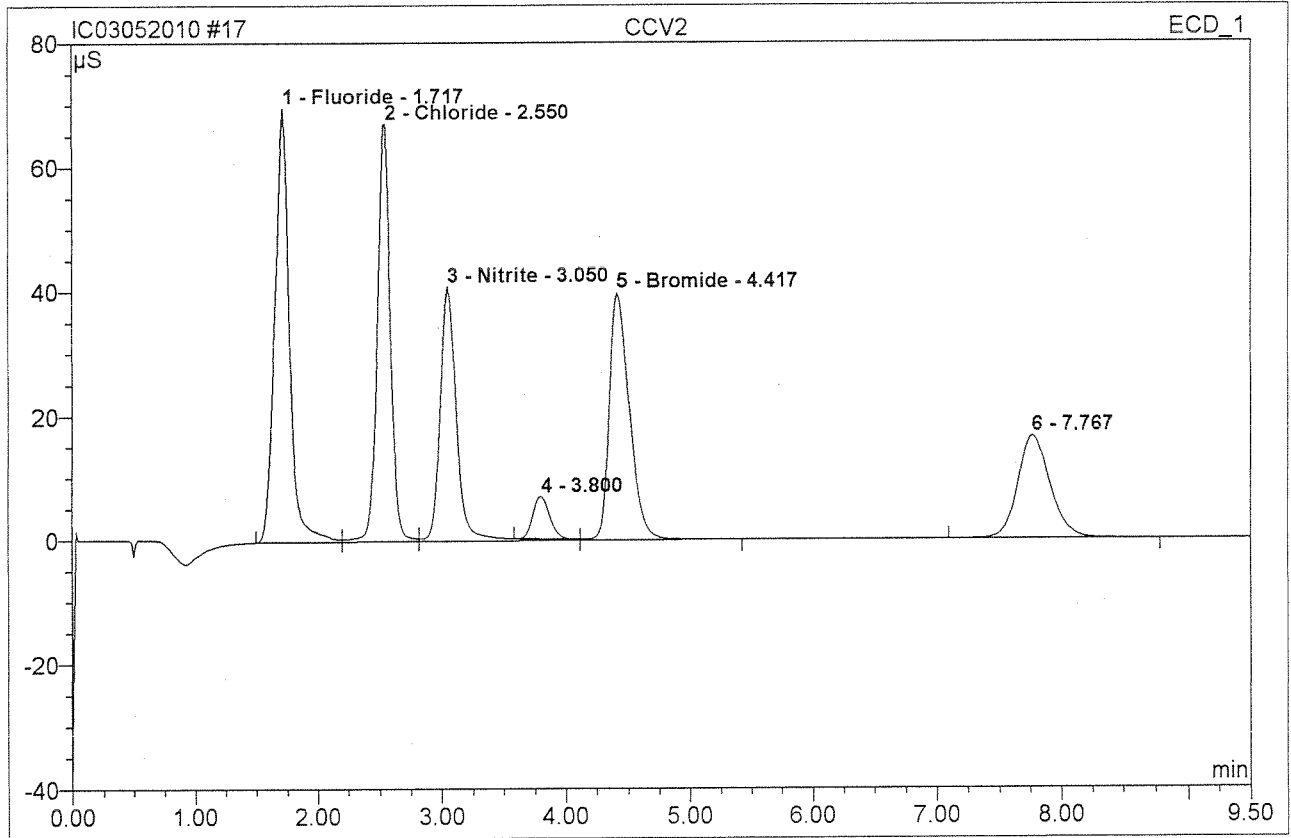
| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount     | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|------------|------|
| 1             | 1.72            | Fluoride  | 69.729                  | 9.557                                | 25.95         | 4.994/100% | BMB* |
| 2             | 2.55            | Chloride  | 66.784                  | 7.890                                | 21.43         | 5.059/101% | BM * |
| 3             | 3.05            | Nitrite   | 40.519                  | 5.918                                | 16.07         | 2.050/163% | M *  |
| 4             | 3.80            | Bromide   | 6.886                   | 1.076                                | 2.92          | 2.009/101% | M *  |
| 5             | 4.42            | Nitrate   | 39.593                  | 7.361                                | 19.99         | 1.998/100% | MB*  |
| 6             | 7.77            | Sulfate   | 16.591                  | 5.020                                | 13.63         | 5.101/162% | BMB  |
| <b>Total:</b> |                 |           | 240.102                 | 36.822                               | 100.00        | 21.211     |      |

After Initials MB

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MAY 20 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>17 CCV2</b>   |                 |                   |        |
| <b>CCV2</b>      |                 |                   |        |
| Sample Name:     | CCV2            | Injection Volume: | 200.0  |
| Vial Number:     | 15              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:42 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



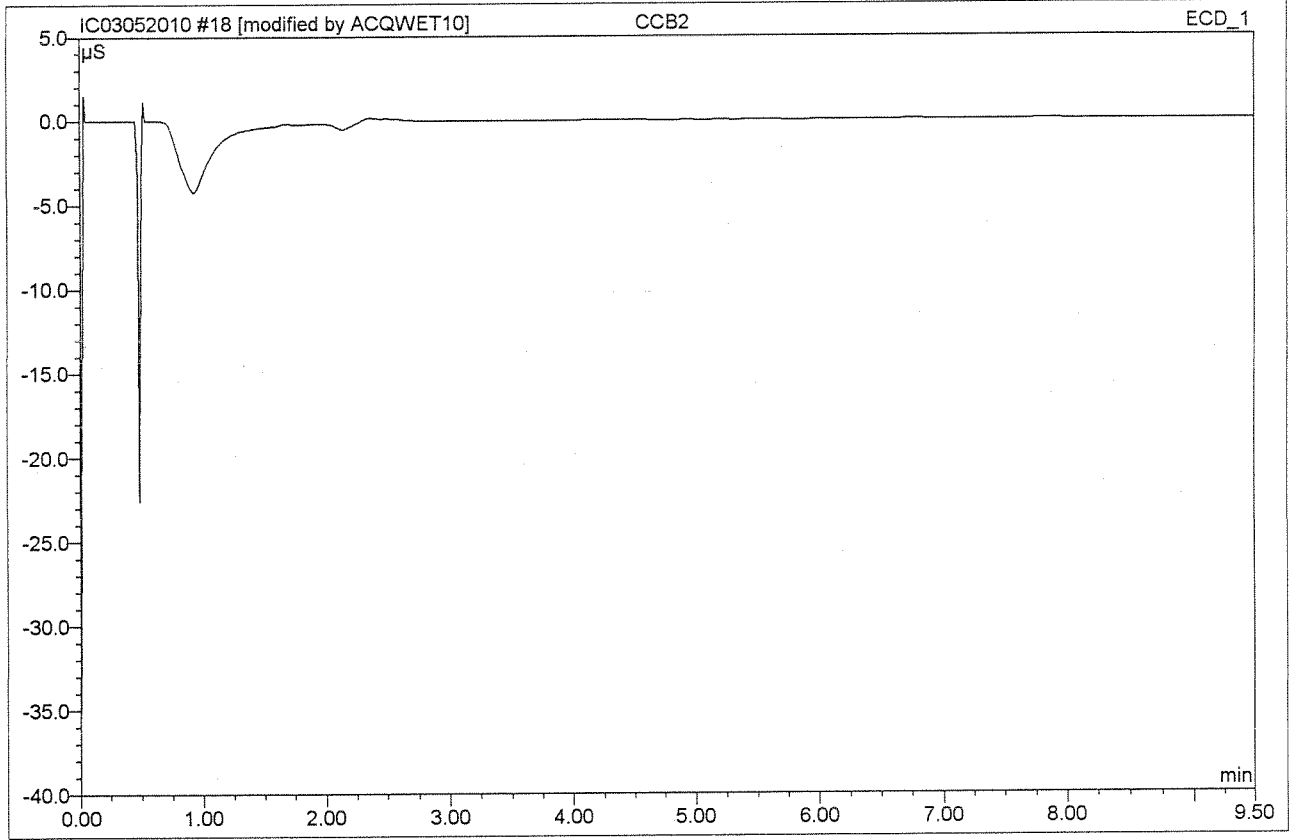
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 69.845       | 9.687          | 25.68         | 5.063  | BM   |
| 2             | 2.55            | Chloride  | 67.214       | 8.155          | 21.61         | 5.229  | M    |
| 3             | 3.05            | Nitrite   | 40.874       | 6.315          | 16.74         | 2.187  | M    |
| 4             | 3.80            | n.a.      | 6.848        | 1.061          | 2.81          | n.a.   | Rd   |
| 5             | 4.42            | Bromide   | 39.745       | 7.491          | 19.85         | 13.980 | MB   |
| 6             | 7.77            | n.a.      | 16.591       | 5.020          | 13.31         | n.a.   | BMB  |
| <b>Total:</b> |                 |           | 241.117      | 37.729         | 100.00        | 26.459 |      |

Before

MAY 20 2010



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>18 CCB2</b>   |                 |                   |        |
| <b>CCB2</b>      |                 |                   |        |
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



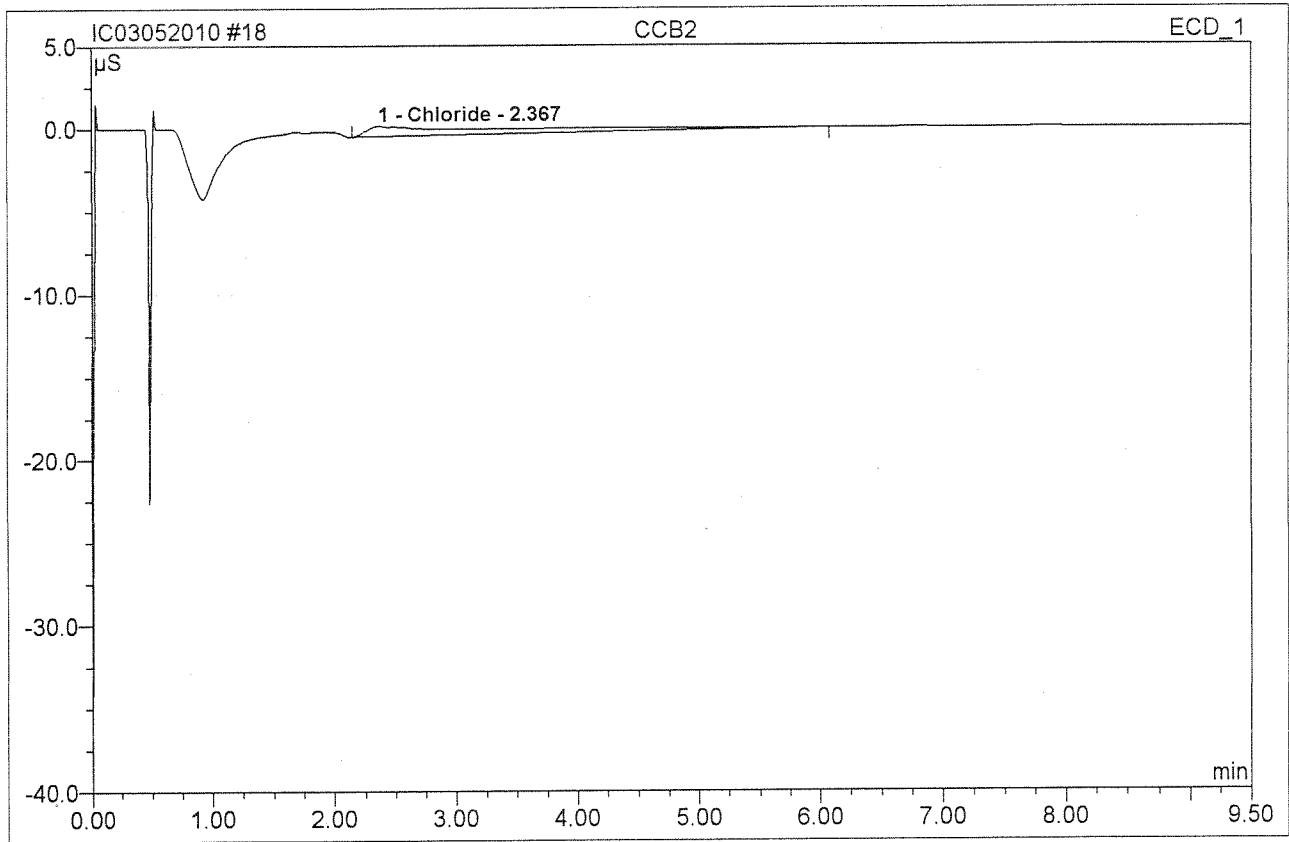
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| <b>Total:</b> |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

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|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>18 CCB2</b>   |                 |                   |        |
| <b>CCB2</b>      |                 |                   |        |
| Sample Name:     | CCB2            | Injection Volume: | 200.0  |
| Vial Number:     | 16              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 10:54 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

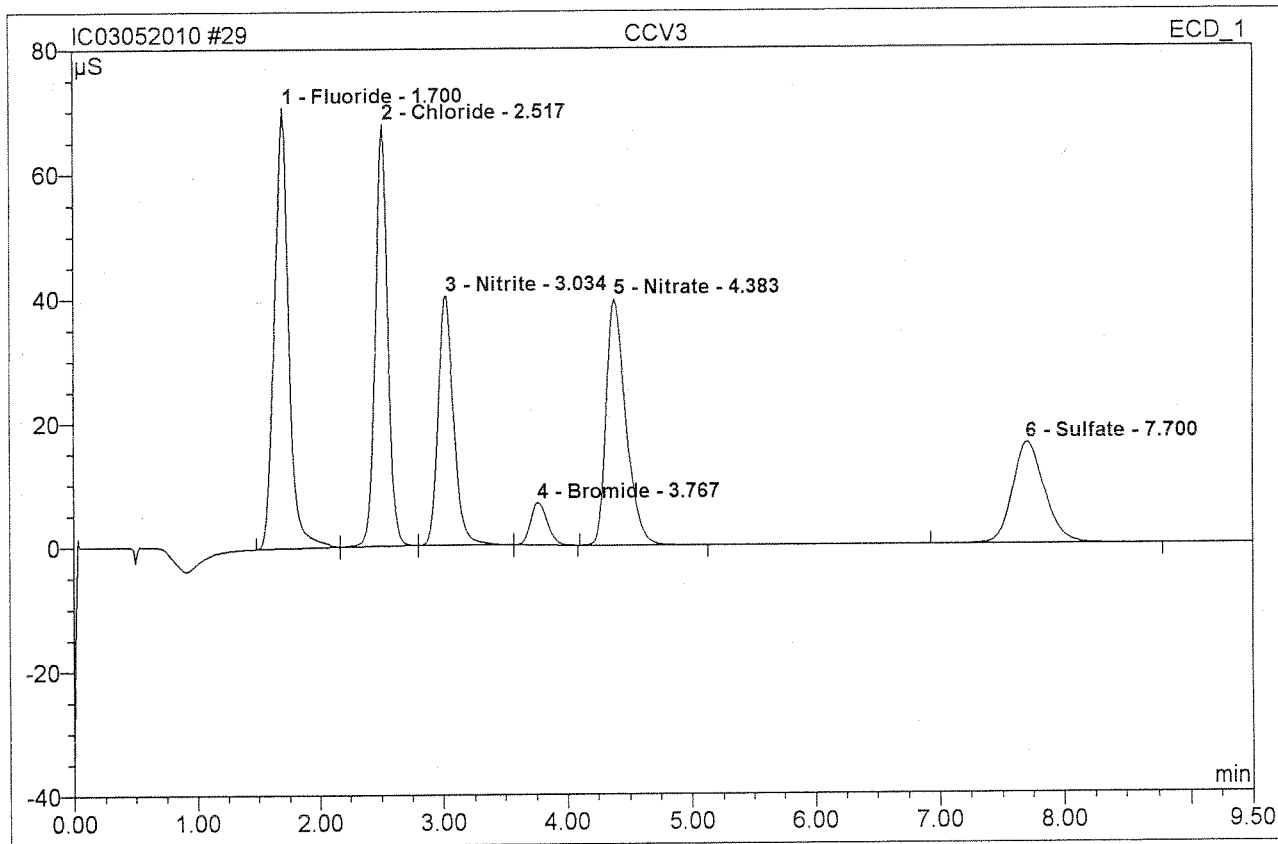


| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.37            | Chloride  | 0.642        | 0.970          | 100.00        | 0.622  | BMB  |
| <b>Total:</b> |                 |           | 0.642        | 0.970          | 100.00        | 0.622  |      |

Before

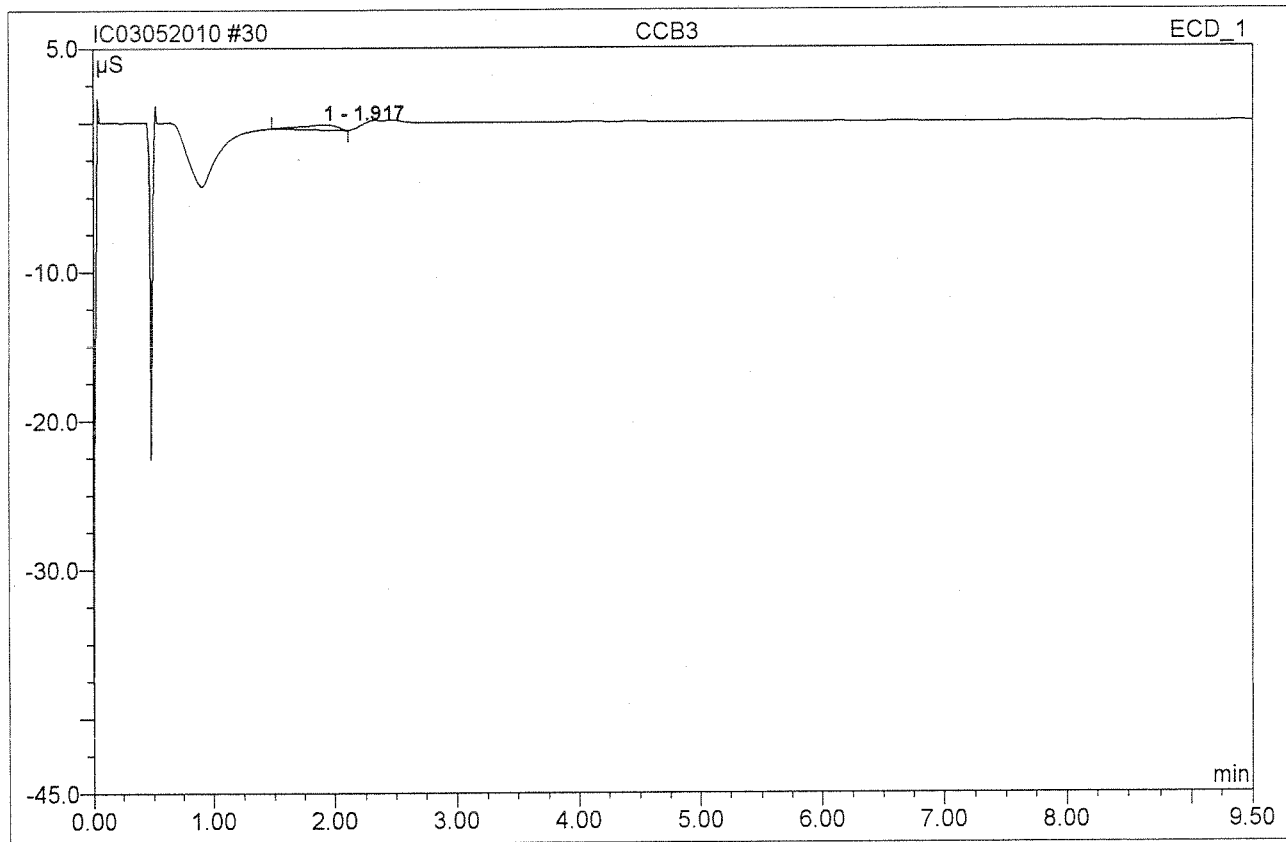
MAY 20 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>29 CCV3</b>   |                 |                   |        |
| <b>CCV3</b>      |                 |                   |        |
| Sample Name:     | CCV3            | Injection Volume: | 200.0  |
| Vial Number:     | 26              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 13:50 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



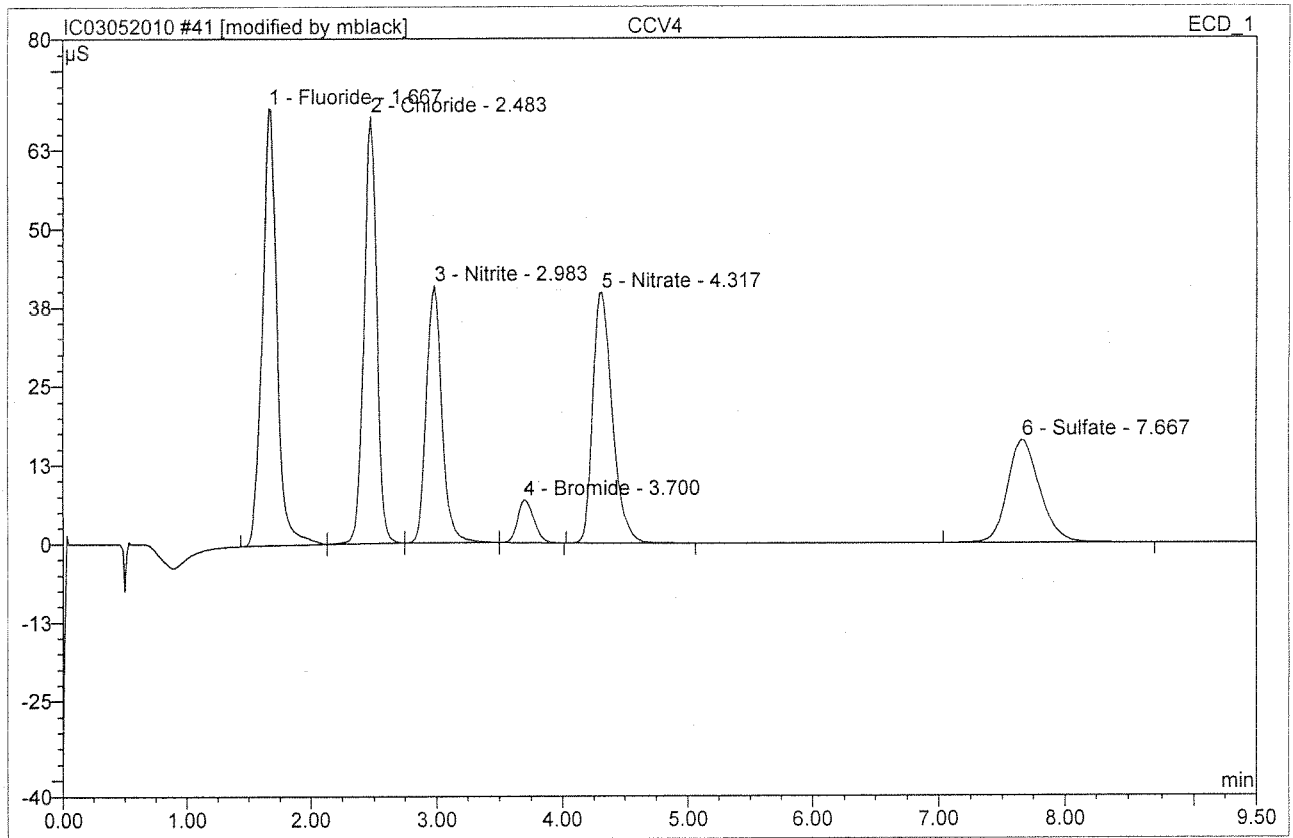
| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 1.70         | Fluoride  | 70.840    | 9.559       | 26.16      | 4.996100% | BMB  |
| 2             | 2.52         | Chloride  | 67.871    | 7.827       | 21.42      | 5.019100% | bMB  |
| 3             | 3.03         | Nitrite   | 40.169    | 5.866       | 16.05      | 2.032102% | bMB  |
| 4             | 3.77         | Bromide   | 6.870     | 1.054       | 2.88       | 1.967999% | bMB  |
| 5             | 4.38         | Nitrate   | 39.641    | 7.330       | 20.06      | 1.990999% | BMB  |
| 6             | 7.70         | Sulfate   | 16.325    | 4.905       | 13.42      | 4.984100% | BMB  |
| <b>Total:</b> |              |           | 241.716   | 36.541      | 100.00     | 20.987    |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>30 CCB3</b>   |                 |                   |        |
| <b>CCB3</b>      |                 |                   |        |
| Sample Name:     | CCB3            | Injection Volume: | 200.0  |
| Vial Number:     | 27              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 14:02 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.92            | n.a.      | 0.327        | 0.119          | 100.00        | n.a.   | BMB  |
| <b>Total:</b> |                 |           | 0.327        | 0.119          | 100.00        | 0.000  |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>41 CCV4</b>   |                 |                   |        |
| <b>CCV4</b>      |                 |                   |        |
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 38              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



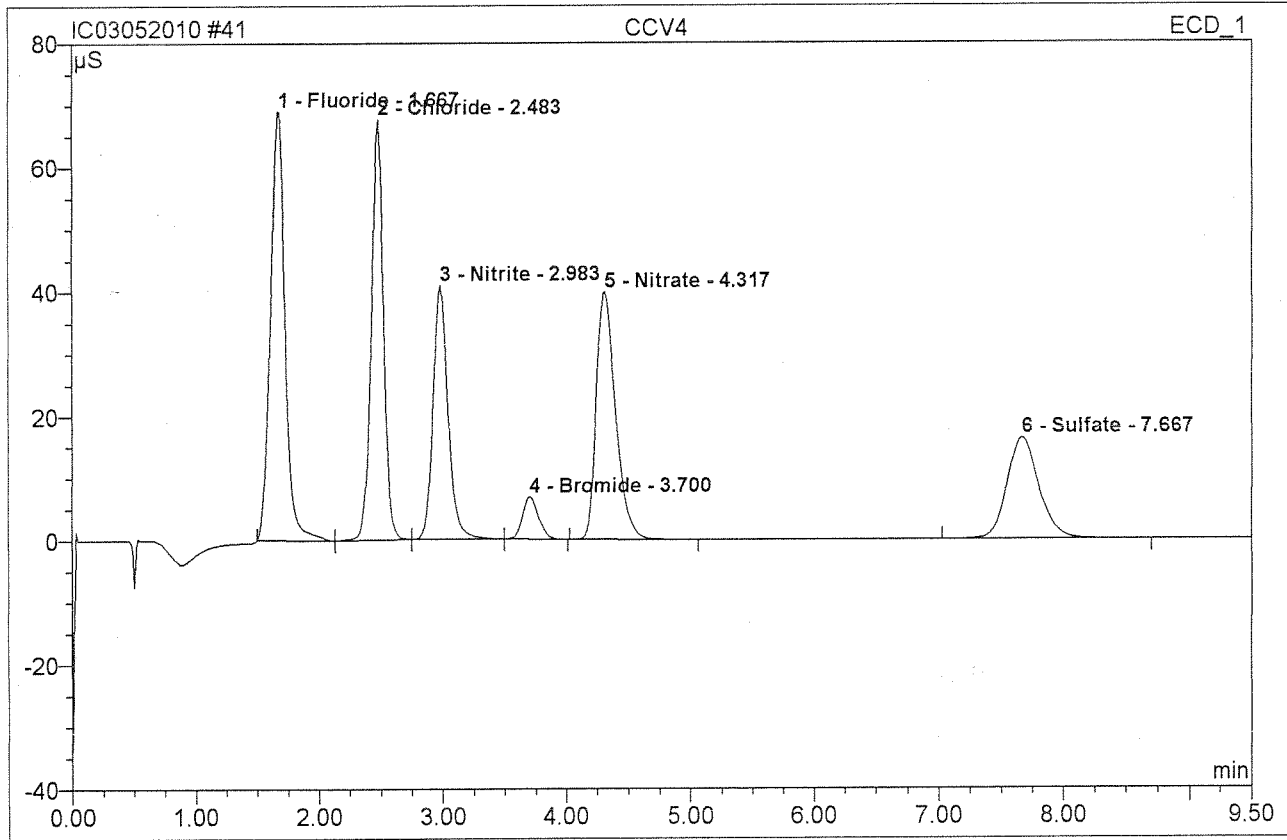
| No.           | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount   | Type |
|---------------|--------------|-----------|-----------|-------------|------------|----------|------|
| 1             | 1.67         | Fluoride  | 69.318    | 9.441       | 26.15      | 4.93499% | BMb* |
| 2             | 2.48         | Chloride  | 67.648    | 7.750       | 21.47      | 4.97099% | bMb  |
| 3             | 2.98         | Nitrite   | 40.787    | 5.806       | 16.08      | 2.01110% | bMb  |
| 4             | 3.70         | Bromide   | 6.853     | 1.040       | 2.88       | 1.94177% | bMB  |
| 5             | 4.32         | Nitrate   | 39.774    | 7.203       | 19.96      | 1.95587% | BMB  |
| 6             | 7.67         | Sulfate   | 16.335    | 4.856       | 13.45      | 4.93599% | BMB  |
| <b>Total:</b> |              |           | 240.715   | 36.097      | 100.00     | 20.746   |      |

After  
Insects MB

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MAY 23 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>41 CCV4</b>   |                 |                   |        |
| <b>CCV4</b>      |                 |                   |        |
| Sample Name:     | CCV4            | Injection Volume: | 200.0  |
| Vial Number:     | 38              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:14 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



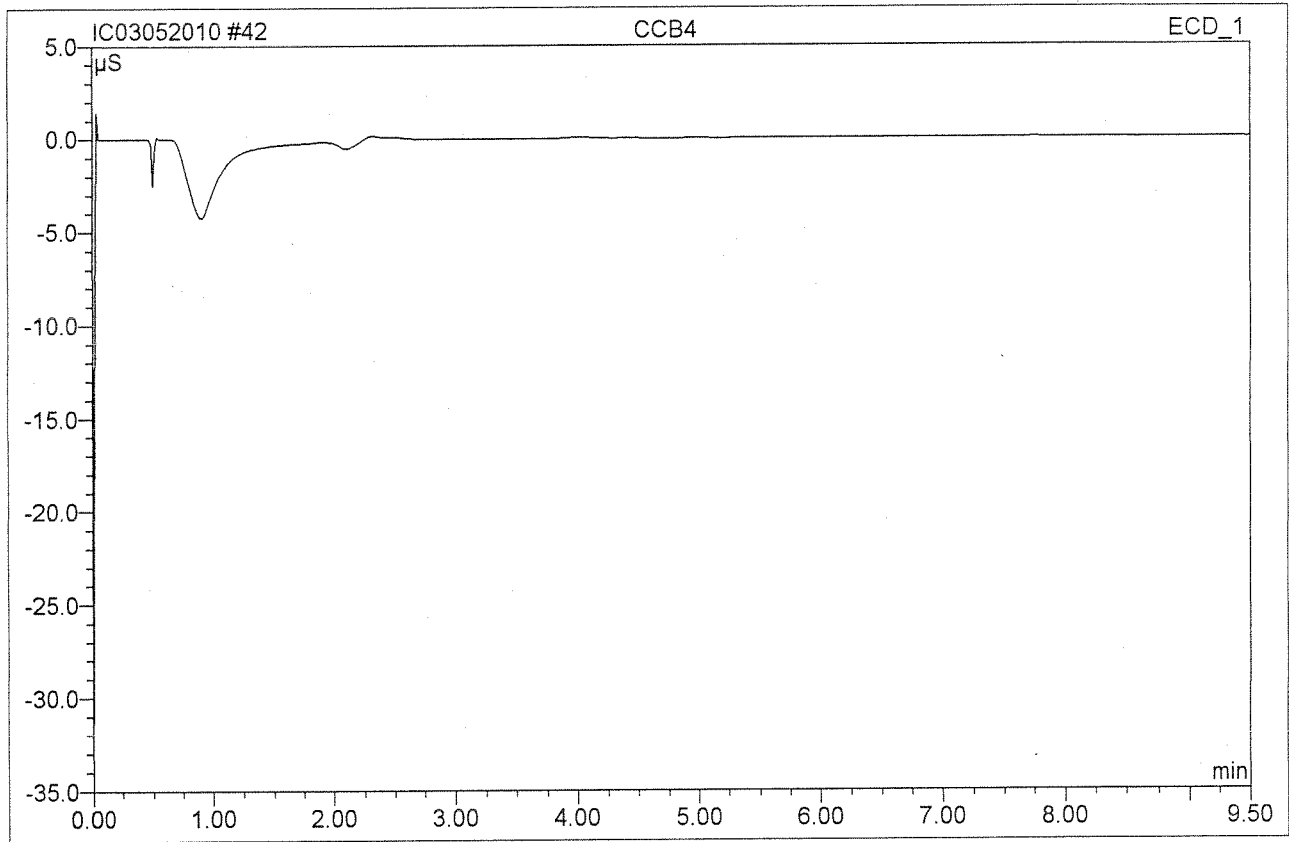
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.67            | Fluoride  | 68.954       | 9.278          | 25.82         | 4.849  | BMb  |
| 2             | 2.48            | Chloride  | 67.648       | 7.750          | 21.57         | 4.970  | bMb  |
| 3             | 2.98            | Nitrite   | 40.787       | 5.806          | 16.16         | 2.011  | bMb  |
| 4             | 3.70            | Bromide   | 6.853        | 1.040          | 2.89          | 1.941  | bMB  |
| 5             | 4.32            | Nitrate   | 39.774       | 7.203          | 20.05         | 1.955  | BMB  |
| 6             | 7.67            | Sulfate   | 16.335       | 4.856          | 13.51         | 4.935  | BMB  |
| <b>Total:</b> |                 |           | 240.351      | 35.933         | 100.00        | 20.661 |      |

Before

MAY 20 2010

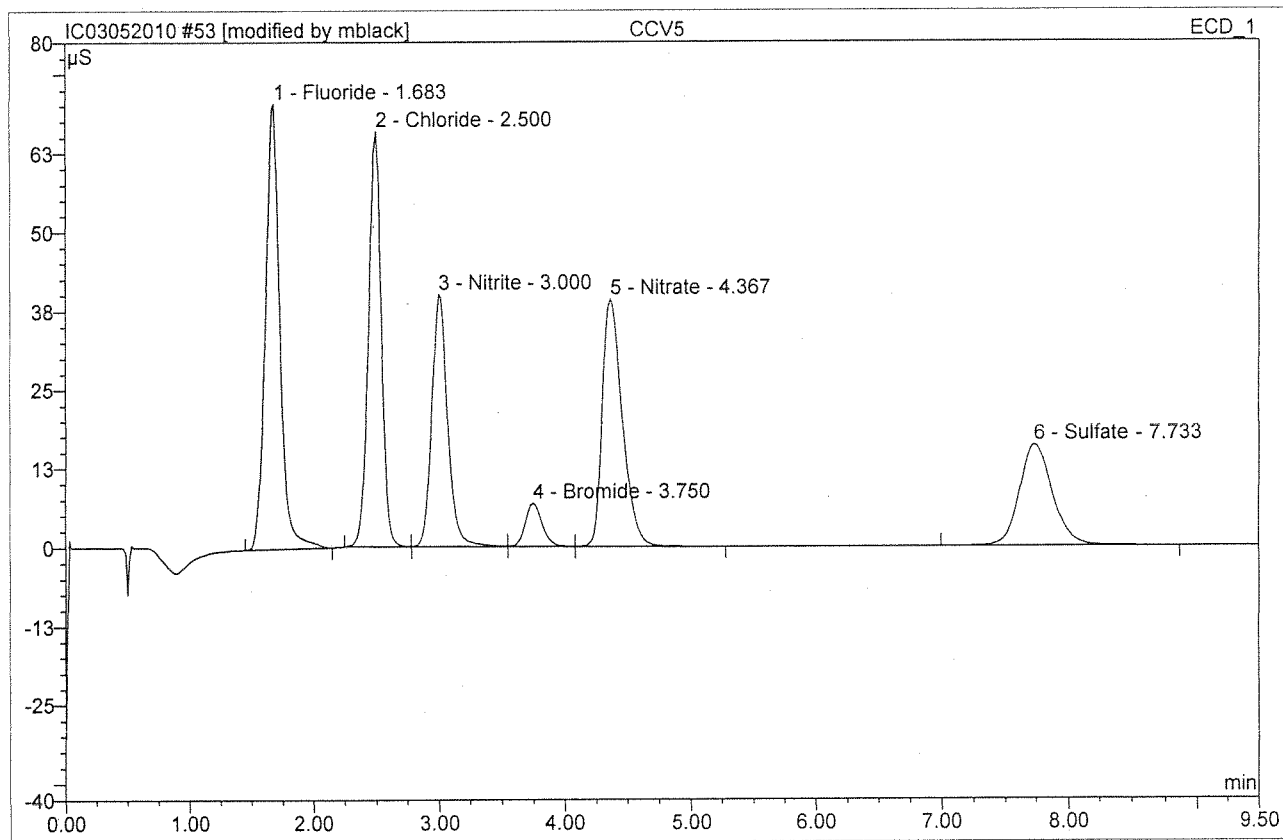


|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>42 CCB4</b>   |                 |                   |        |
| <b>CCB4</b>      |                 |                   |        |
| Sample Name:     | CCB4            | Injection Volume: | 200.0  |
| Vial Number:     | 39              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 16:26 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| <b>Total:</b> |                  |           | 0.000        | 0.000          | 0.00           | 0.000  |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>53 CCV5</b>   |                 |                   |        |
| <b>CCV5</b>      |                 |                   |        |
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 50              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:37 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



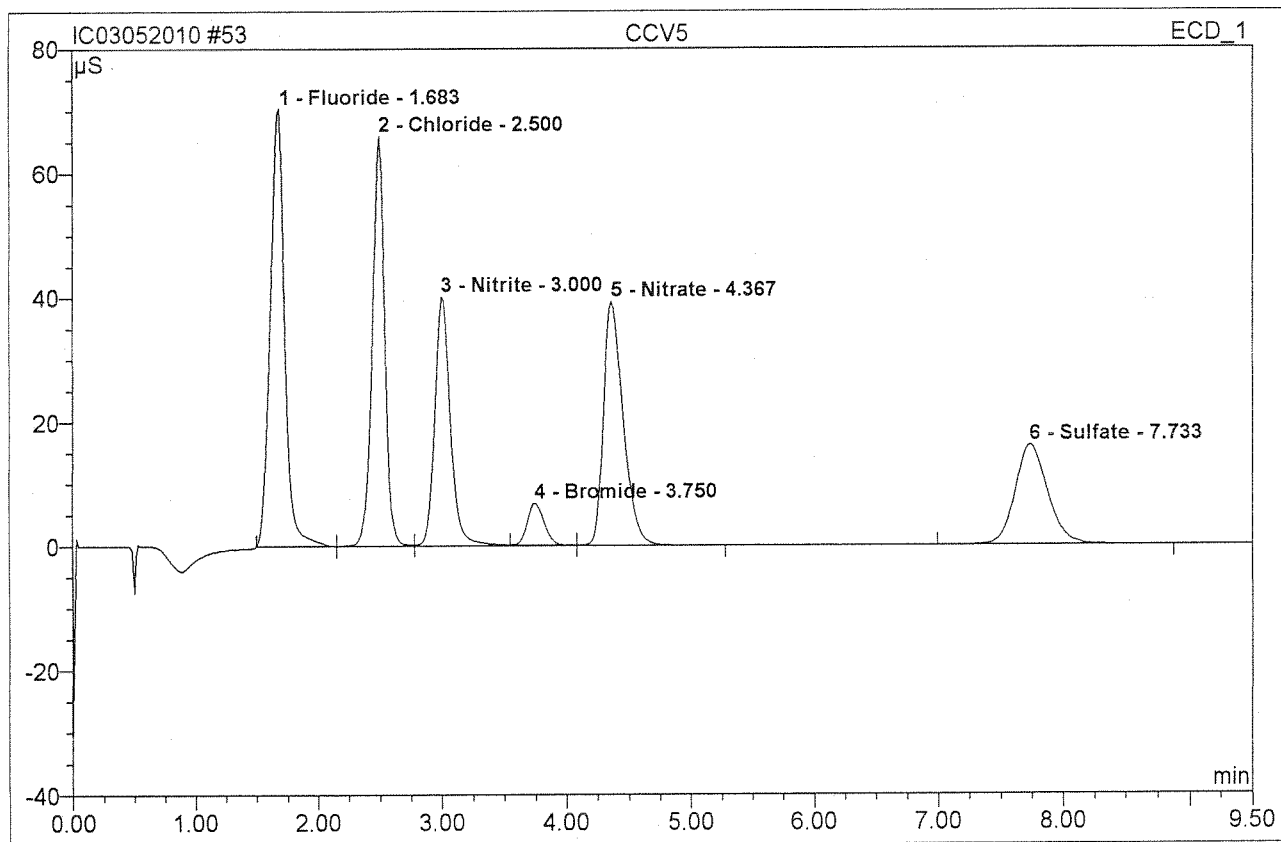
| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 1.68         | Fluoride  | 70.654    | 9.482       | 26.17      | 4.955972  | BMB* |
| 2             | 2.50         | Chloride  | 65.846    | 7.688       | 21.22      | 4.929992  | BM * |
| 3             | 3.00         | Nitrite   | 39.967    | 5.862       | 16.18      | 2.0301022 | M *  |
| 4             | 3.75         | Bromide   | 6.849     | 1.071       | 2.96       | 1.9991022 | M *  |
| 5             | 4.37         | Nitrate   | 39.230    | 7.245       | 20.00      | 1.967992  | MB*  |
| 6             | 7.73         | Sulfate   | 16.116    | 4.885       | 13.48      | 4.964972  | BMB  |
| <b>Total:</b> |              |           | 238.661   | 36.232      | 100.00     | 20.845    |      |

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MB

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MAY 21 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>53 CCV5</b>   |                 |                   |        |
| <b>CCV5</b>      |                 |                   |        |
| Sample Name:     | CCV5            | Injection Volume: | 200.0  |
| Vial Number:     | 50              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:37 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



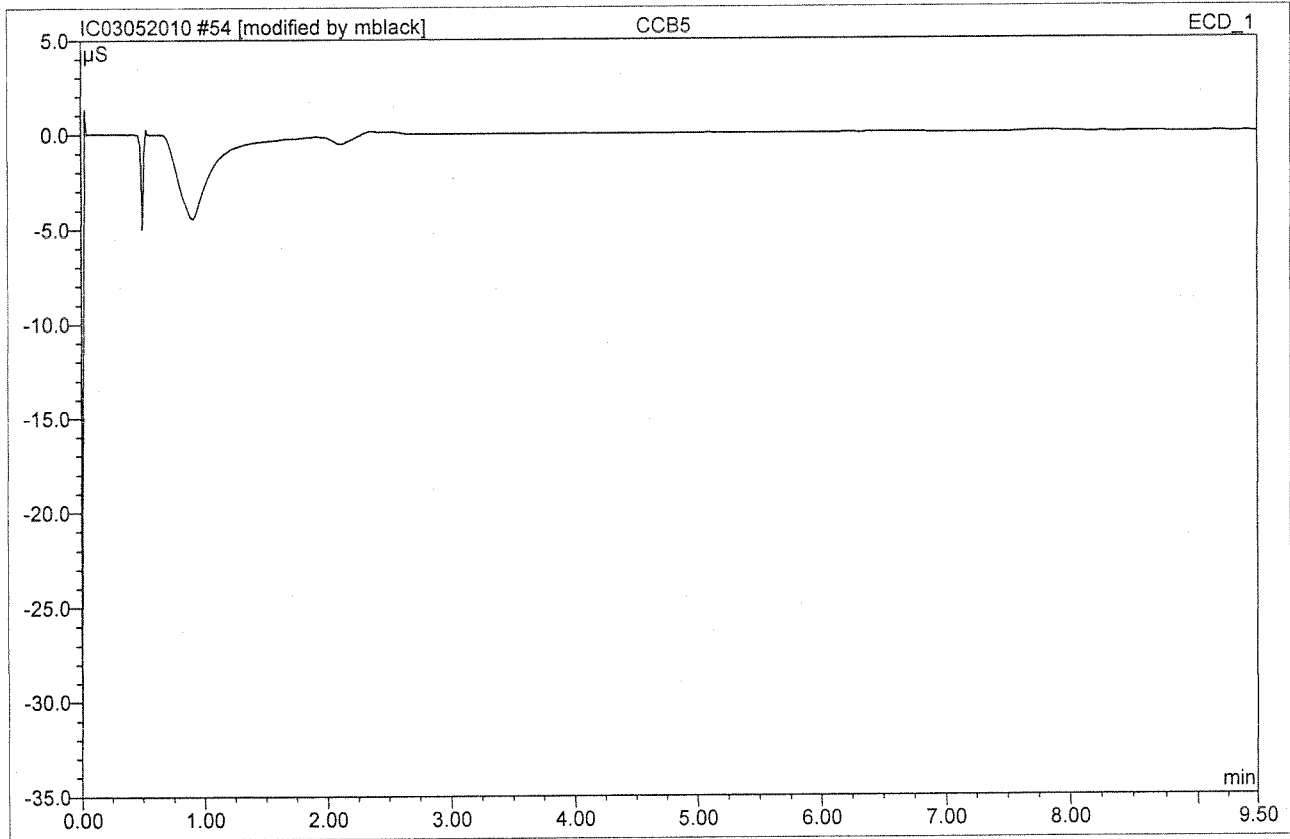
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 70.433       | 9.383          | 25.77         | 4.904  | BM   |
| 2             | 2.50            | Chloride  | 66.008       | 7.782          | 21.37         | 4.990  | M    |
| 3             | 3.00            | Nitrite   | 40.101       | 6.031          | 16.56         | 2.089  | M    |
| 4             | 3.75            | Bromide   | 6.791        | 1.043          | 2.86          | 1.946  | Rd   |
| 5             | 4.37            | Nitrate   | 39.283       | 7.287          | 20.01         | 1.978  | MB   |
| 6             | 7.73            | Sulfate   | 16.116       | 4.885          | 13.42         | 4.964  | BMB  |
| <b>Total:</b> |                 |           | 238.732      | 36.411         | 100.00        | 20.872 |      |

Before

MAY 21 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>54 CCB5</b>   |                 |                   |        |
| <b>CCB5</b>      |                 |                   |        |
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.    | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

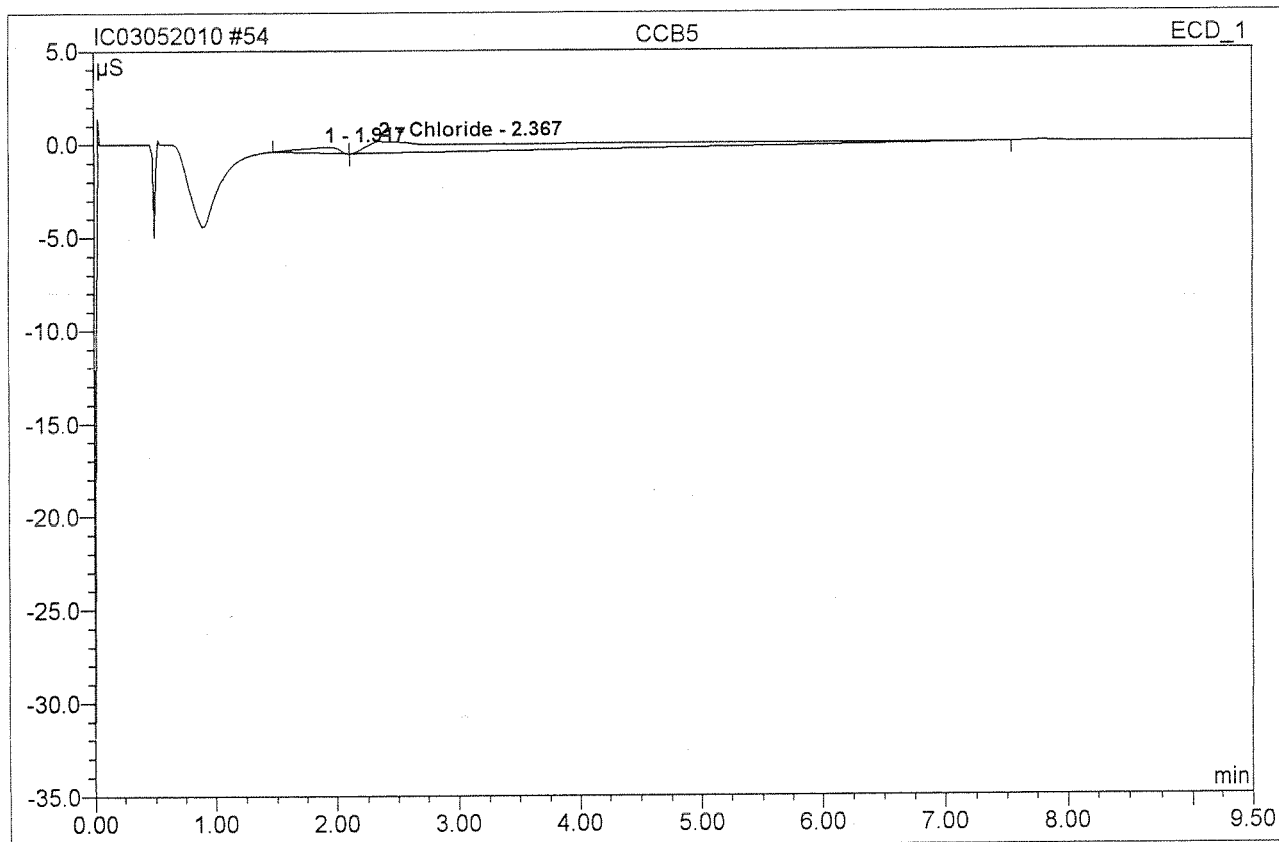
After Initials

*MB*

MAY 21 2010

*MB 5/25/10*

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>54 CCB5</b>   |                 |                   |        |
| <b>CCB5</b>      |                 |                   |        |
| Sample Name:     | CCB5            | Injection Volume: | 200.0  |
| Vial Number:     | 51              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 18:49 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

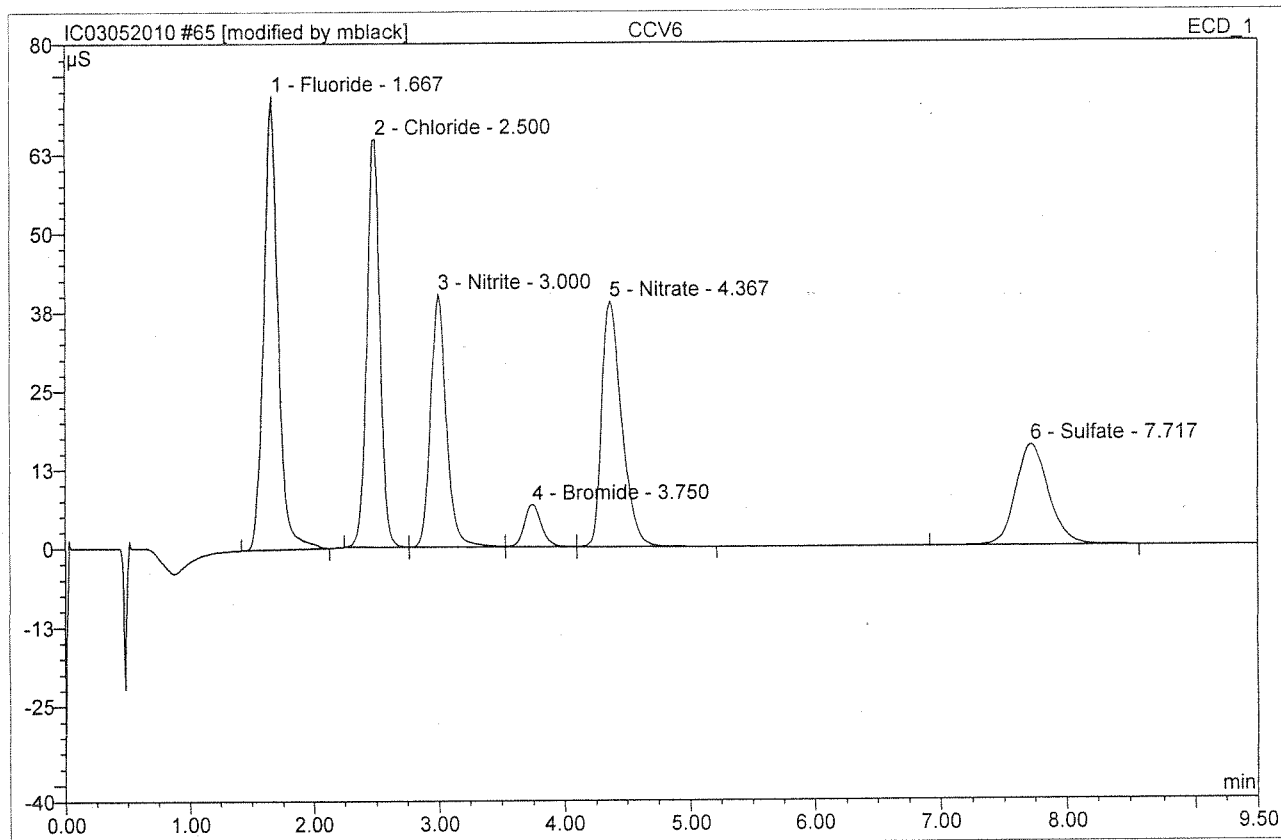


| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.92             | n.a.      | 0.319        | 0.118          | 7.92           | n.a.   | BMb  |
| 2             | 2.37             | Chloride  | 0.637        | 1.374          | 92.08          | 0.881  | bMB  |
| <b>Total:</b> |                  |           | 0.956        | 1.493          | 100.00         | 0.881  |      |

Before

MAY 21 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>65 CCV6</b>   |                 |                   |        |
| <b>CCV6</b>      |                 |                   |        |
| Sample Name:     | CCV6            | Injection Volume: | 200.0  |
| Vial Number:     | 62              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount    | Type |
|---------------|--------------|-----------|-----------|-------------|------------|-----------|------|
| 1             | 1.67         | Fluoride  | 72.127    | 9.575       | 26.32      | 5.004100% | BMB* |
| 2             | 2.50         | Chloride  | 64.810    | 7.733       | 21.25      | 4.95899%  | BM * |
| 3             | 3.00         | Nitrite   | 40.147    | 5.870       | 16.13      | 2.03362%  | M *  |
| 4             | 3.75         | Bromide   | 6.815     | 1.073       | 2.95       | 2.00210%  | M *  |
| 5             | 4.37         | Nitrate   | 39.002    | 7.269       | 19.98      | 1.97399%  | MB*  |
| 6             | 7.72         | Sulfate   | 16.129    | 4.867       | 13.38      | 4.94695%  | BMB  |
| <b>Total:</b> |              |           | 239.030   | 36.386      | 100.00     | 20.917    |      |

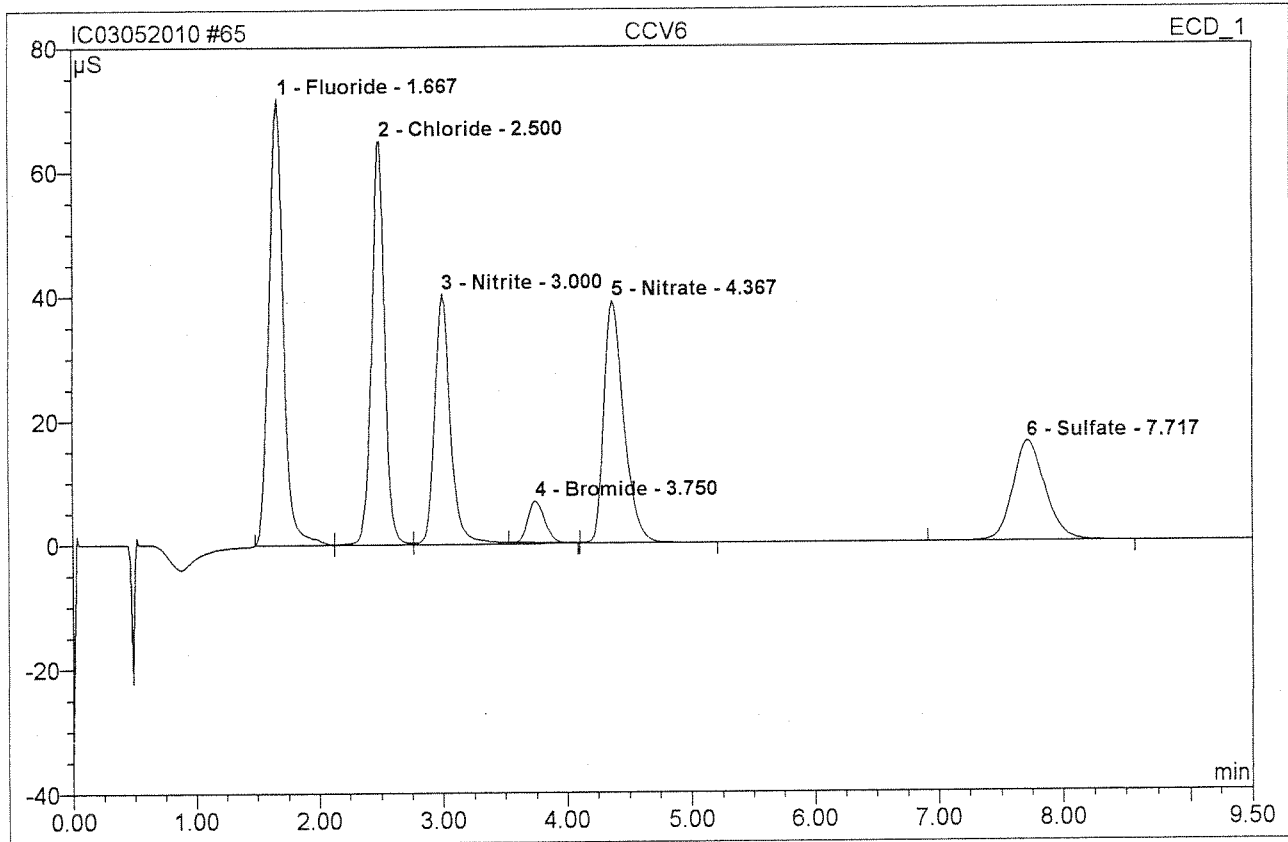
MB

5/25/10

MAY 21 2010



|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>65 CCV6</b>   |                 |                   |        |
| <b>CCV6</b>      |                 |                   |        |
| Sample Name:     | CCV6            | Injection Volume: | 200.0  |
| Vial Number:     | 62              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:01 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

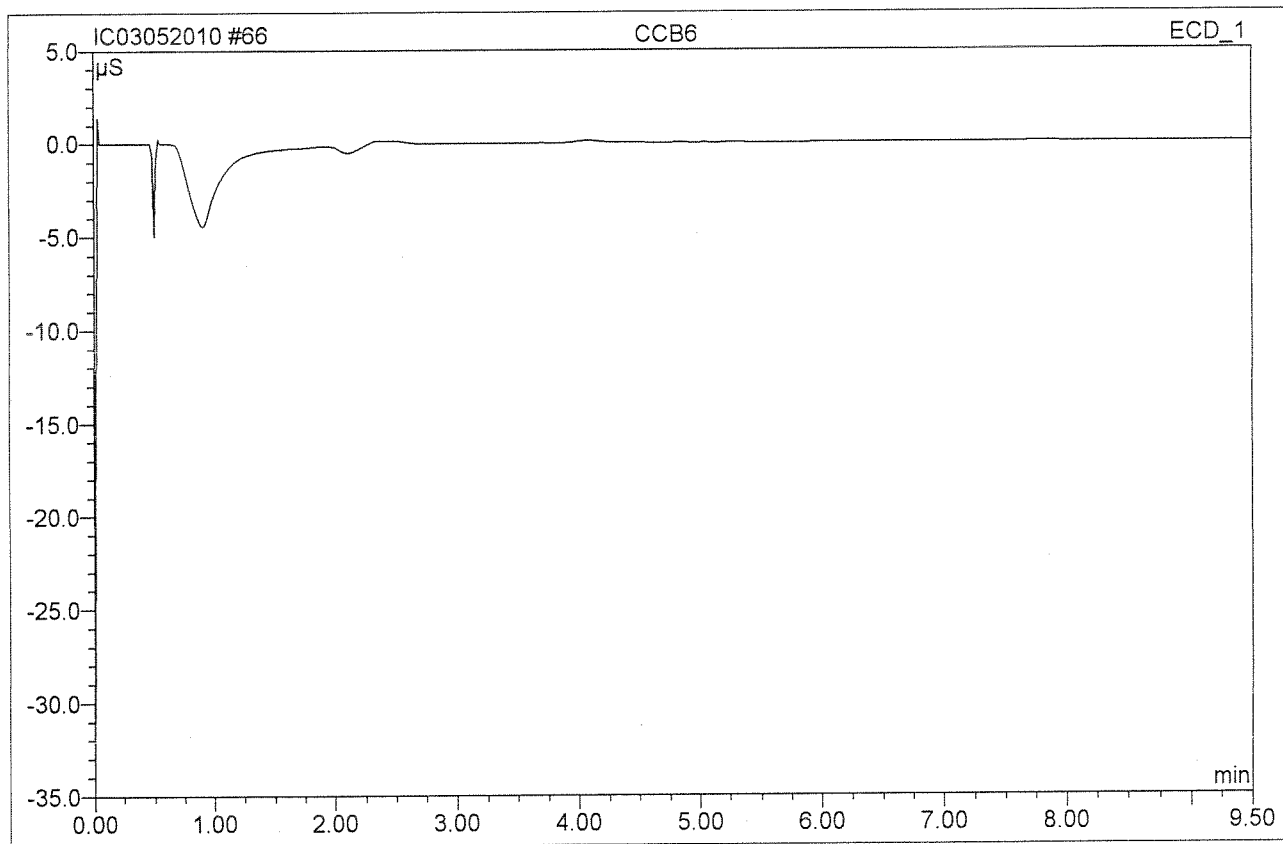


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.67            | Fluoride  | 71.995       | 9.531          | 25.94         | 4.981  | BM   |
| 2             | 2.50            | Chloride  | 65.050       | 7.875          | 21.43         | 5.049  | M    |
| 3             | 3.00            | Nitrite   | 40.343       | 6.110          | 16.63         | 2.116  | M    |
| 4             | 3.75            | Bromide   | 6.756        | 1.043          | 2.84          | 1.947  | Rd   |
| 5             | 4.37            | Nitrate   | 39.077       | 7.324          | 19.93         | 1.988  | MB   |
| 6             | 7.72            | Sulfate   | 16.129       | 4.867          | 13.24         | 4.946  | BMB  |
| <b>Total:</b> |                 |           | 239.351      | 36.750         | 100.00        | 21.027 |      |

Default

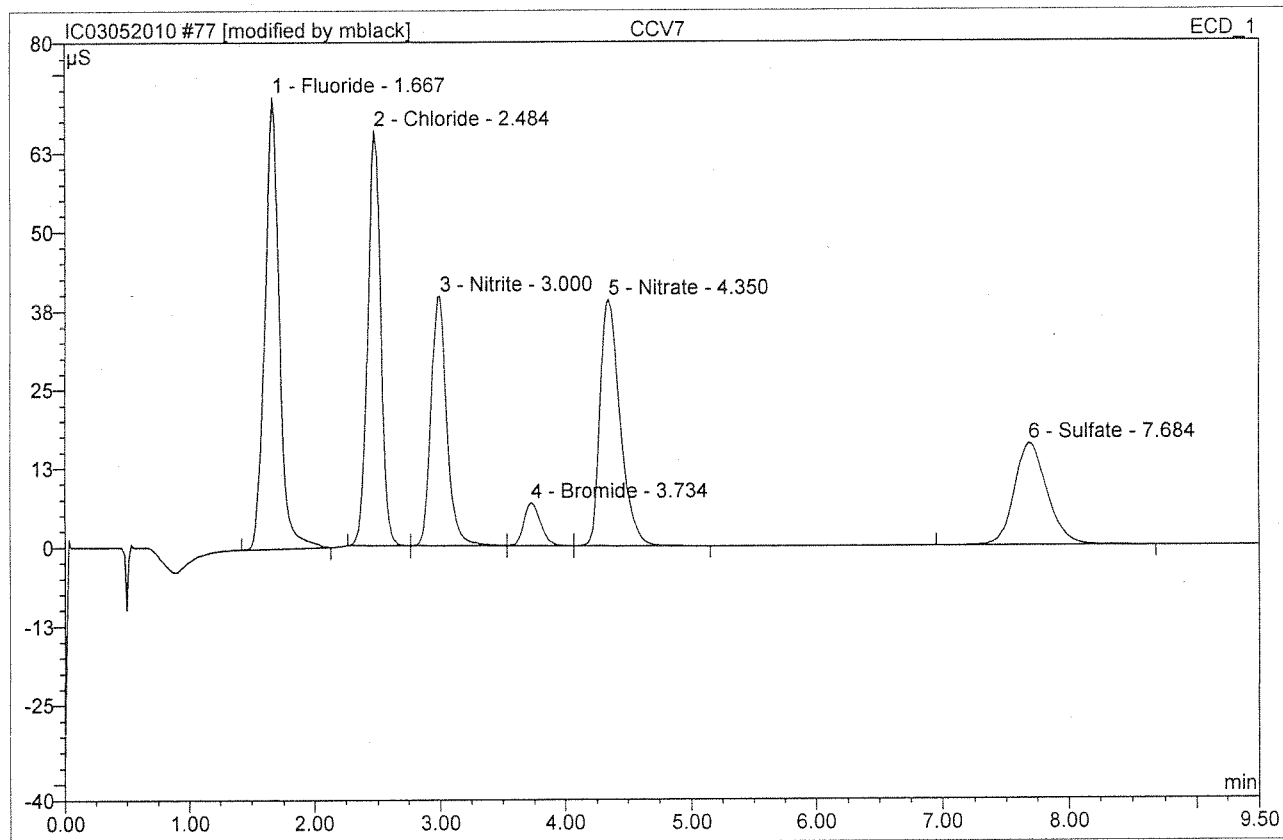
MAY 21 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>66 CCB6</b>   |                 |                   |        |
| <b>CCB6</b>      |                 |                   |        |
| Sample Name:     | CCB6            | Injection Volume: | 200.0  |
| Vial Number:     | 63              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 21:13 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>77 CCV7</b>   |                 |                   |        |
| <b>CCV7</b>      |                 |                   |        |
| Sample Name:     | CCV7            | Injection Volume: | 200.0  |
| Vial Number:     | 74              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



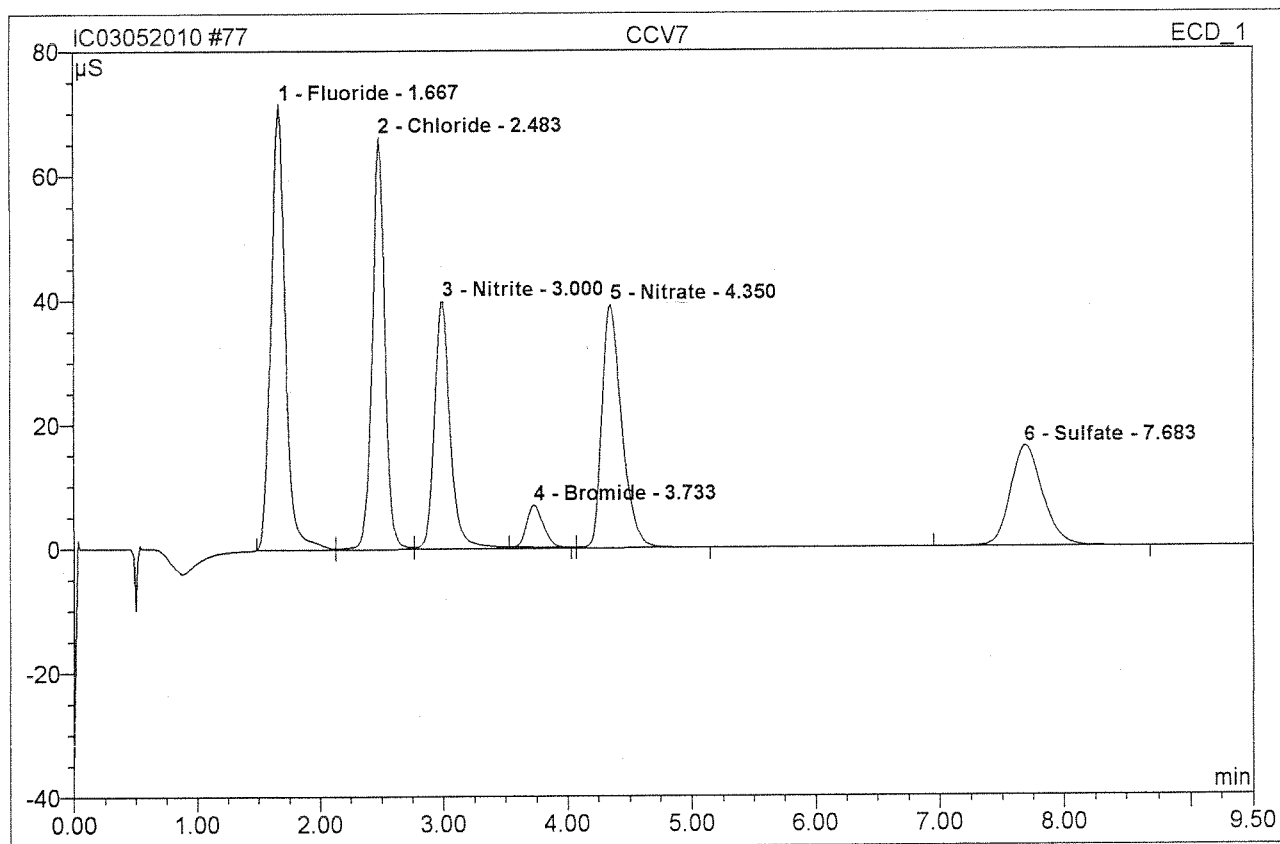
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount                | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|-----------------------|------|
| 1             | 1.67            | Fluoride  | 71.716       | 9.412          | 26.12         | 4.919 <sup>78%</sup>  | BMB* |
| 2             | 2.48            | Chloride  | 65.906       | 7.682          | 21.32         | 4.926 <sup>77%</sup>  | BM * |
| 3             | 3.00            | Nitrite   | 39.609       | 5.811          | 16.13         | 2.013 <sup>101%</sup> | M *  |
| 4             | 3.73            | Bromide   | 6.802        | 1.047          | 2.91          | 1.954 <sup>75%</sup>  | M *  |
| 5             | 4.35            | Nitrate   | 39.082       | 7.221          | 20.04         | 1.960 <sup>75%</sup>  | MB*  |
| 6             | 7.68            | Sulfate   | 16.147       | 4.862          | 13.49         | 4.941 <sup>77%</sup>  | BMB  |
| <b>Total:</b> |                 |           | 239.262      | 36.036         | 100.00        | 20.713                |      |

After Initials HL

*Handwritten:* 5/25/10

MAY 21 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>77 CCV7</b>   |                 |                   |        |
| <b>CCV7</b>      |                 |                   |        |
| Sample Name:     | CCV7            | Injection Volume: | 200.0  |
| Vial Number:     | 74              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |

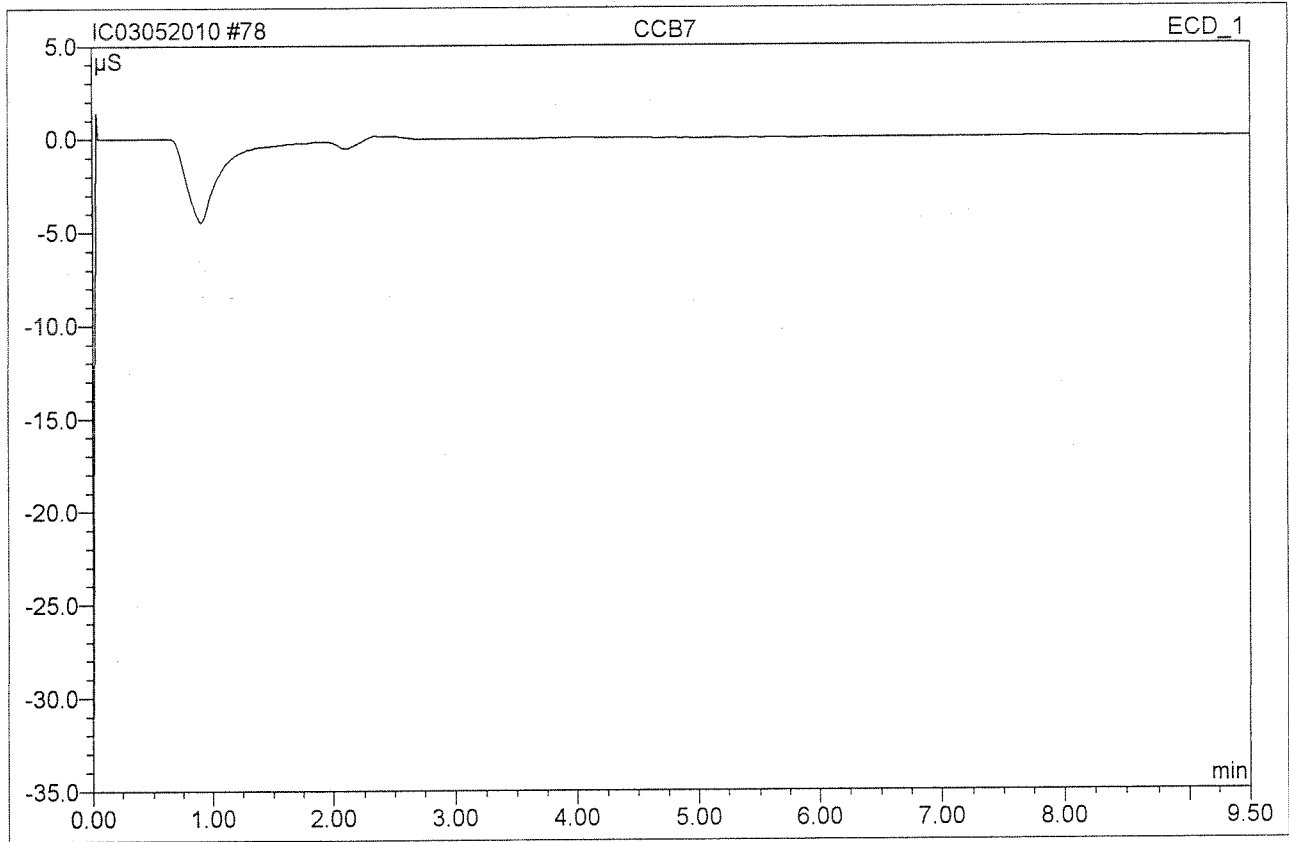


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.67            | Fluoride  | 71.631       | 9.398          | 25.68         | 4.912  | BM   |
| 2             | 2.48            | Chloride  | 66.257       | 7.885          | 21.54         | 5.056  | M    |
| 3             | 3.00            | Nitrite   | 39.892       | 6.116          | 16.71         | 2.118  | M    |
| 4             | 3.73            | Bromide   | 6.779        | 1.038          | 2.84          | 1.938  | Rd   |
| 5             | 4.35            | Nitrate   | 39.187       | 7.298          | 19.94         | 1.981  | MB   |
| 6             | 7.68            | Sulfate   | 16.147       | 4.862          | 13.29         | 4.941  | BMB  |
| <b>Total:</b> |                 |           | 239.894      | 36.598         | 100.00        | 20.946 |      |

Before

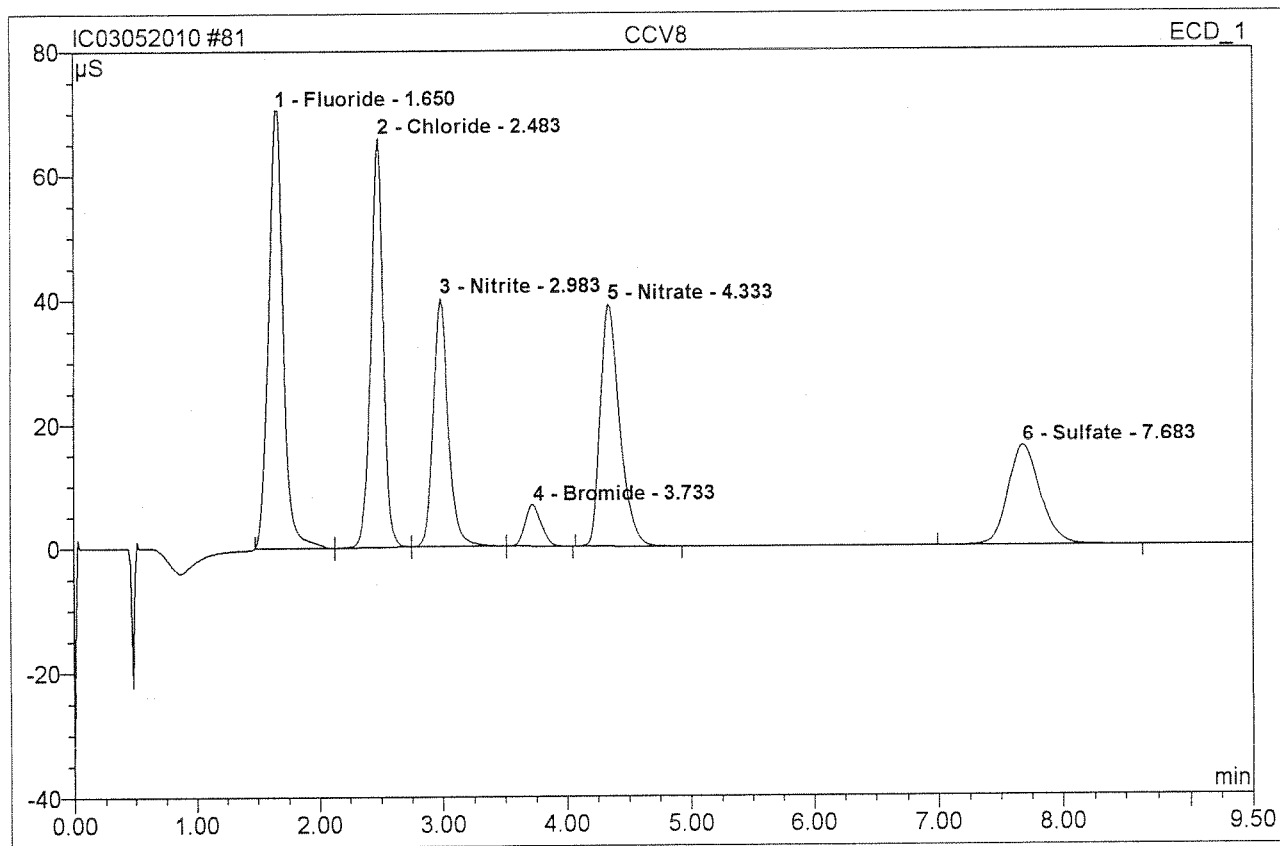
MAY 21 2010

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| <b>78 CCB7</b>   |                 |                   |        |
| <b>CCV7</b>      |                 |                   |        |
| Sample Name:     | CCB7            | Injection Volume: | 200.0  |
| Vial Number:     | 75              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/20/2010 23:36 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50            | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

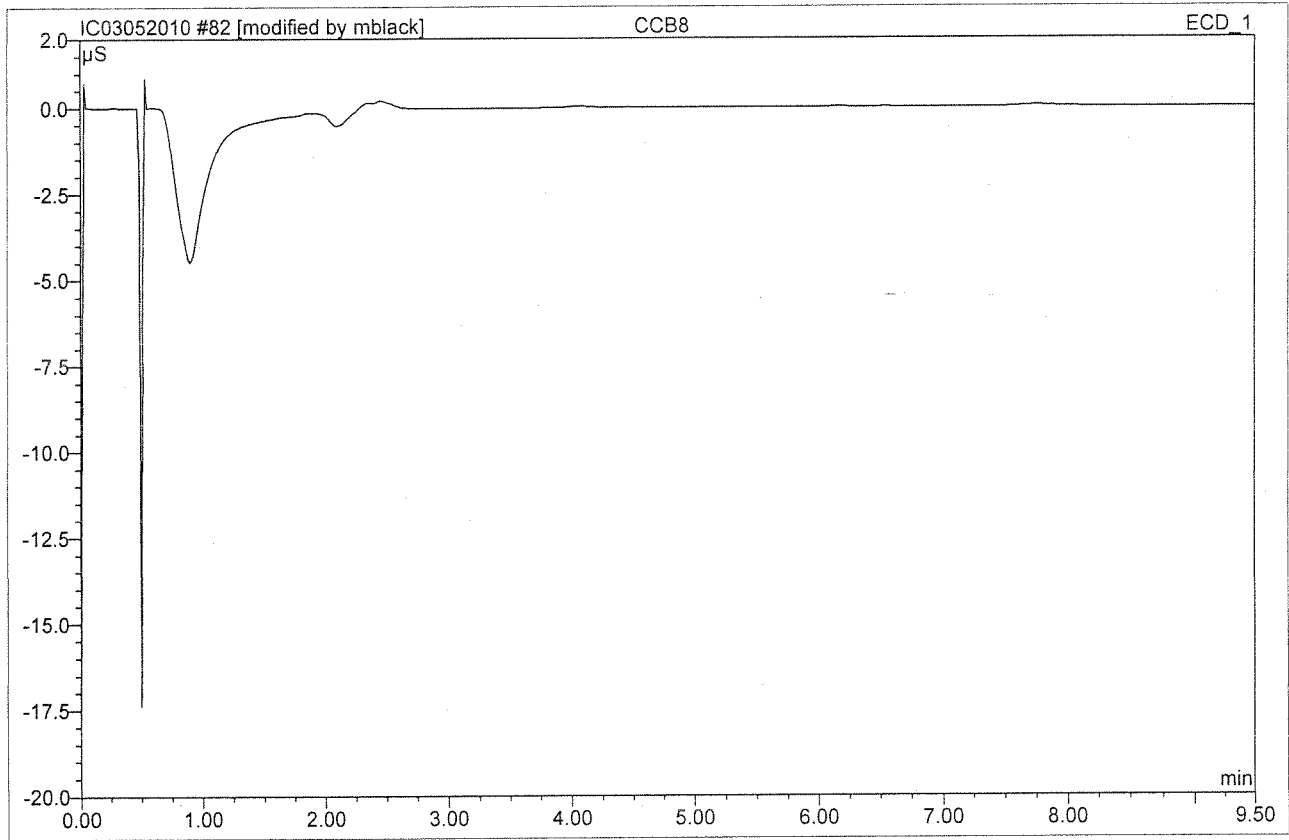
|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>81 CCV8</b>   |                |                   |        |
| <b>CCV8</b>      |                |                   |        |
| Sample Name:     | CCV8           | Injection Volume: | 200.0  |
| Vial Number:     | 78             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:12 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount     | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|------------|------|
| 1             | 1.65             | Fluoride  | 70.499       | 9.430          | 26.15          | 4.928 99%  | BMB  |
| 2             | 2.48             | Chloride  | 65.942       | 7.716          | 21.40          | 4.948 99%  | bMB  |
| 3             | 2.98             | Nitrite   | 40.008       | 5.785          | 16.04          | 2.003 100% | bMB  |
| 4             | 3.73             | Bromide   | 6.713        | 1.039          | 2.88           | 1.940 77%  | bMB  |
| 5             | 4.33             | Nitrate   | 39.007       | 7.218          | 20.02          | 1.959 98%  | BMB  |
| 6             | 7.68             | Sulfate   | 16.167       | 4.866          | 13.50          | 4.945 99%  | BMB  |
| <b>Total:</b> |                  |           | 238.336      | 36.055         | 100.00         | 20.723     |      |



|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>82 CCB8</b>   |                |                   |        |
| <b>CCB8</b>      |                |                   |        |
| Sample Name:     | CCB8           | Injection Volume: | 200.0  |
| Vial Number:     | 79             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |

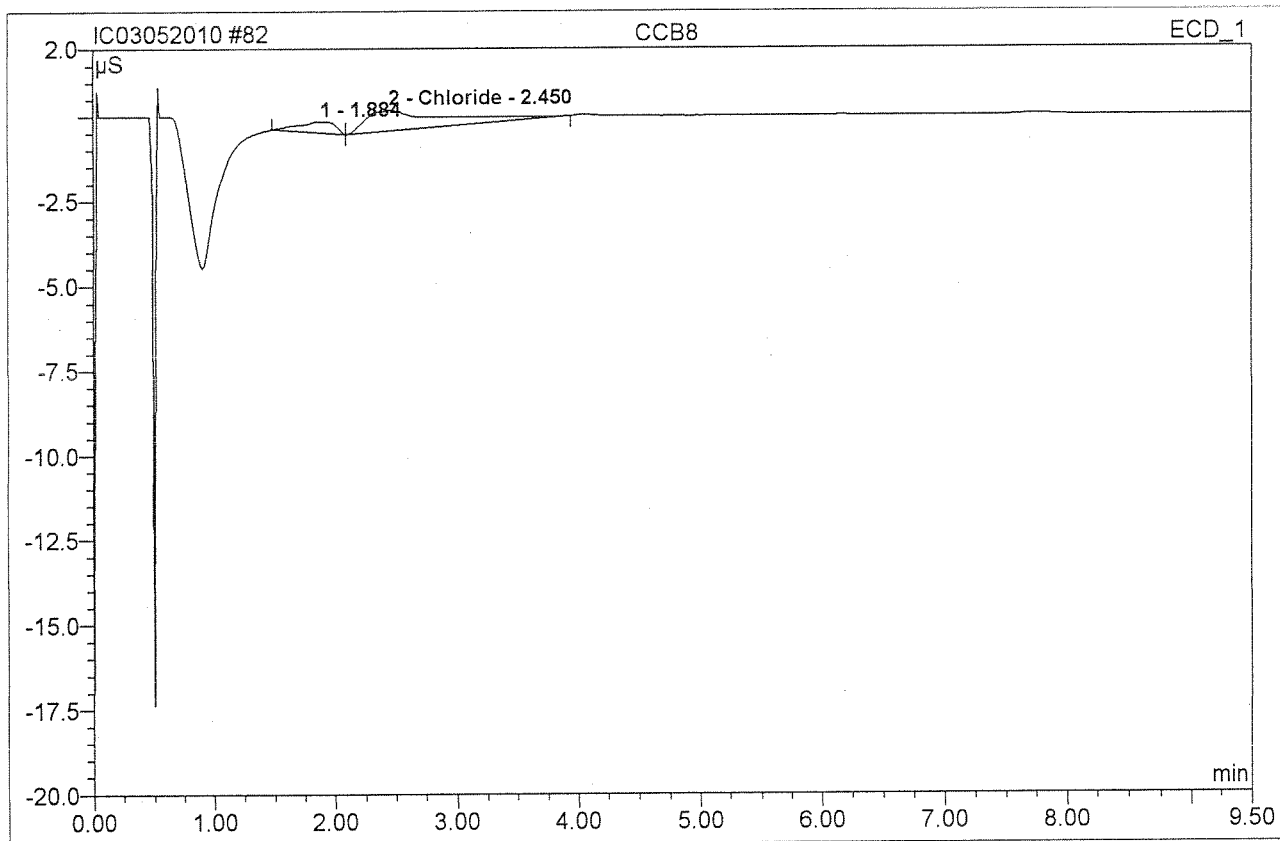


| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

APR 21 2010  
mblack

5/25/10

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| <b>82 CCB8</b>   |                |                   |        |
| <b>CCB8</b>      |                |                   |        |
| Sample Name:     | CCB8           | Injection Volume: | 200.0  |
| Vial Number:     | 79             | Channel:          | ECD_1  |
| Sample Type:     | unknown        | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 5/21/2010 0:24 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 9.50           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|--------|------|
| 1             | 1.88             | n.a.      | 0.332        | 0.119          | 21.04          | n.a.   | BMB  |
| 2             | 2.45             | Chloride  | 0.622        | 0.446          | 78.96          | 0.286  | bMB  |
| <b>Total:</b> |                  |           | 0.954        | 0.565          | 100.00         | 0.286  |      |

Before

MAY 21 2010

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

6/4/10

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

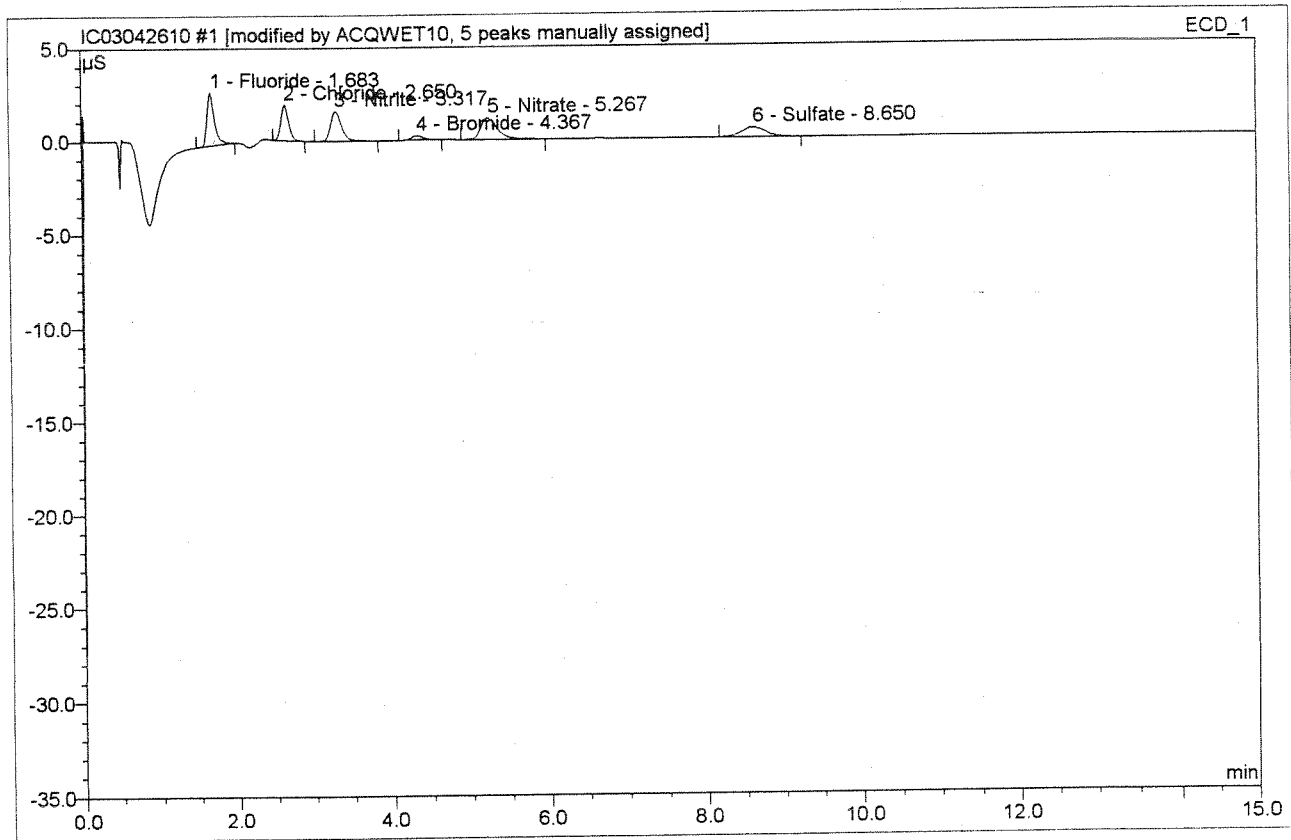
Date: 04/26/10

| Anion | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Corr.Coeff. | Slope  |
|-------|---------|---------|---------|---------|---------|---------|---------|-------------|--------|
| F     | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9846     | 1.9134 |
| Cl    | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9661     | 1.5595 |
| NO2   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9925     | 2.8873 |
| Br    | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9591     | 0.5358 |
| NO3   | 0.0     | 0.1     | 0.5     | 1.0     | 2.0     | 5.0     | -       | 99.9043     | 3.6839 |
| SO4   | 0.0     | 0.2     | 0.5     | 1.0     | 5.0     | 7.5     | 10.0    | 99.9690     | 0.9841 |

All calibration standard concentrations are in mg/L unless otherwise noted.  
Zero point forced through zero.

6.44108116

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>1 std2/lvl2</b> |                |                   |        |
| Sample Name:       | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:       | 1              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 15.00          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type  |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|-------|
| 1             | 1.68            | Fluoride  | 2.860        | 0.324          | 24.73         | 0.169  | BMB*  |
| 2             | 2.65            | Chloride  | 1.892        | 0.229          | 17.47         | 0.147  | BMB^  |
| 3             | 3.32            | Nitrite   | 1.586        | 0.259          | 19.78         | 0.090  | BMB^  |
| 4             | 4.37            | Bromide   | 0.244        | 0.043          | 3.25          | 0.080  | BMB** |
| 5             | 5.27            | Nitrate   | 1.144        | 0.279          | 21.26         | 0.076  | BMB^  |
| 6             | 8.65            | Sulfate   | 0.507        | 0.177          | 13.51         | 0.180  | BMB^  |
| <b>Total:</b> |                 |           | 8.233        | 1.311          | 100.00        | 0.742  |       |

After Initial

*MB*

BAM/ST

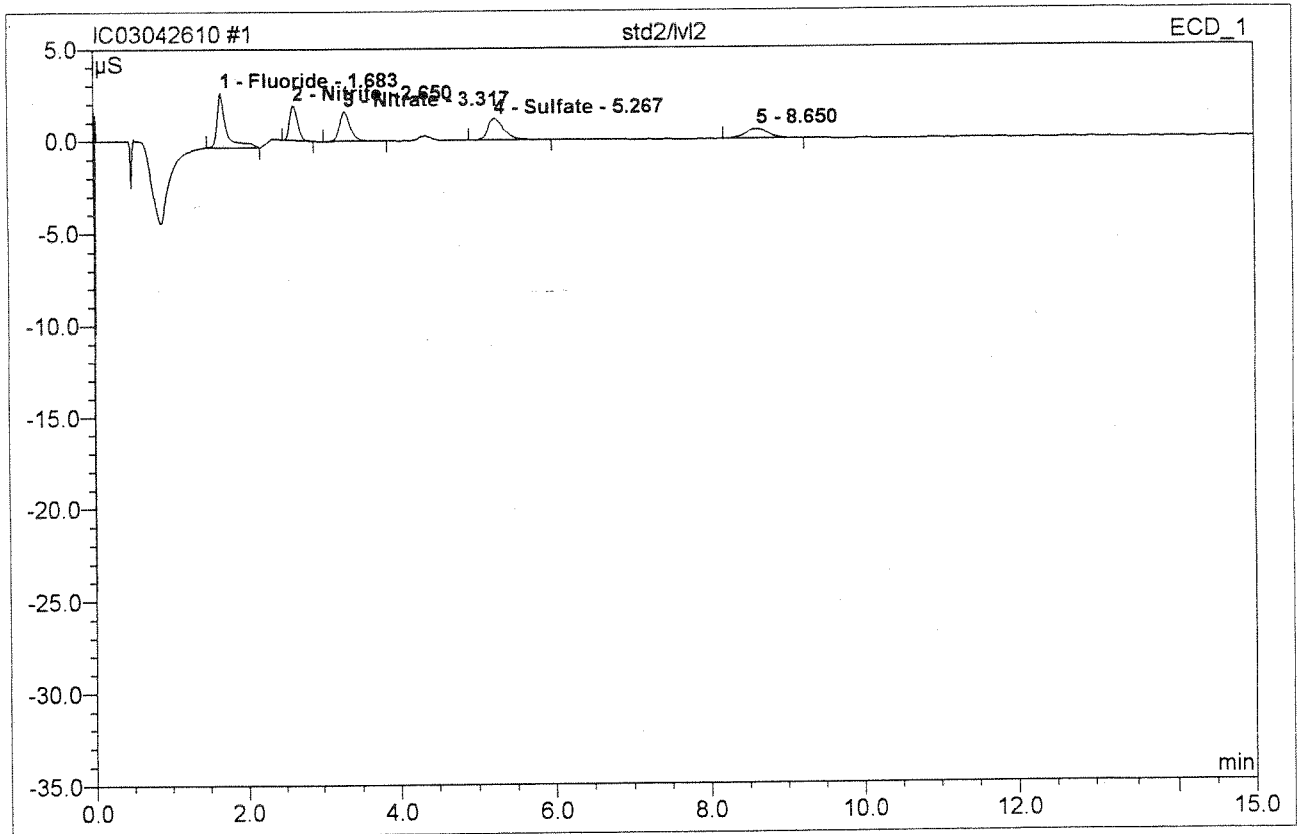
APR 26 2010

Chromleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/integration

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|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>1 std2/lvl2</b> |                |                   |        |
| Sample Name:       | std2/lvl2      | Injection Volume: | 200.0  |
| Vial Number:       | 1              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 8:54 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 15.00          | Sample Amount:    | 1.0000 |



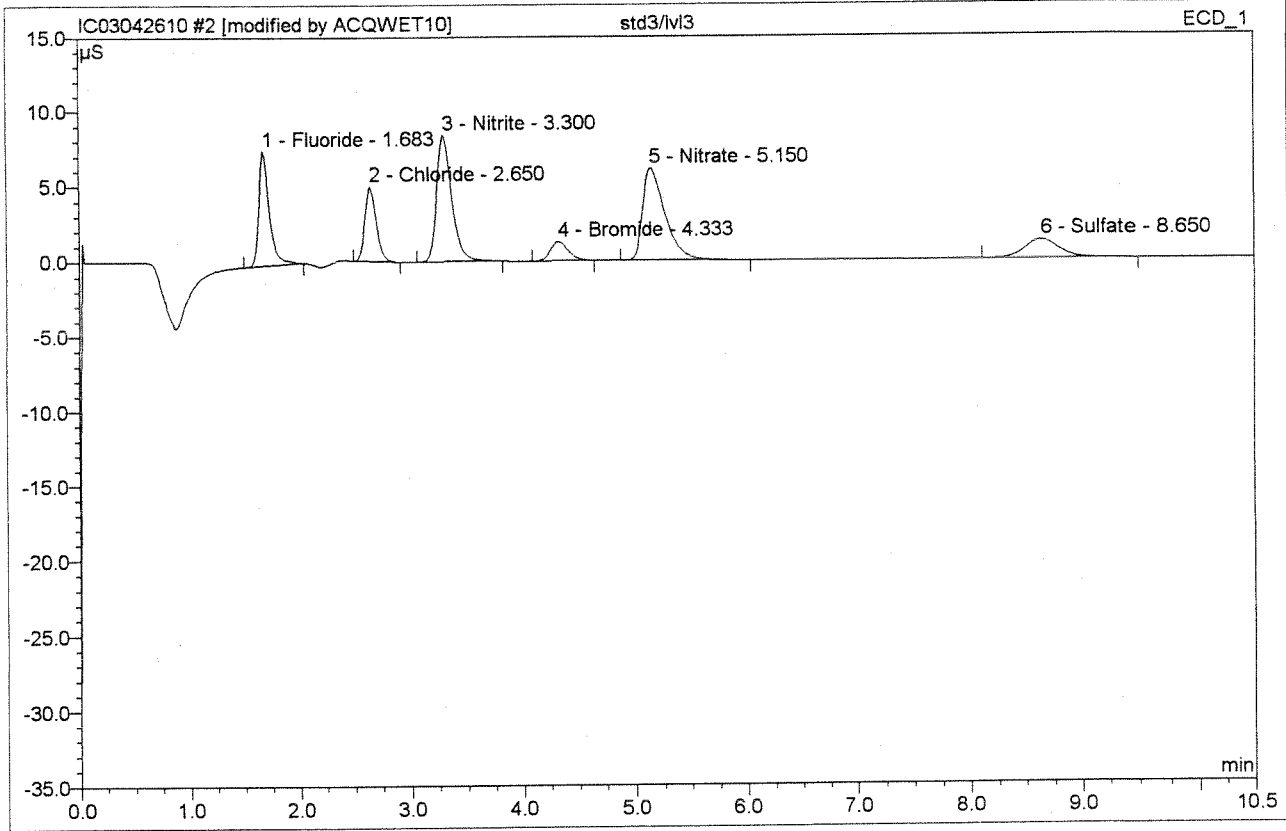
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 2.953        | 0.421          | 30.83         | 0.200  | BMB  |
| 2             | 2.65            | Nitrite   | 1.892        | 0.229          | 16.78         | 0.100  | BMB  |
| 3             | 3.32            | Nitrate   | 1.586        | 0.259          | 19.00         | 0.100  | BMB  |
| 4             | 5.27            | Sulfate   | 1.144        | 0.279          | 20.42         | 0.200  | BMB  |
| 5             | 8.65            | n.a.      | 0.507        | 0.177          | 12.97         | n.a.   | BMB  |
| <b>Total:</b> |                 |           | 8.081        | 1.366          | 100.00        | 0.600  |      |

Before

APR 26 2010



|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>2 std3/lvl3</b> |                |                   |        |
| Sample Name:       | std3/lvl3      | Injection Volume: | 200.0  |
| Vial Number:       | 2              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 7.622        | 0.844          | 17.37         | 0.441  | BMB* |
| 2             | 2.65            | Chloride  | 4.937        | 0.589          | 12.12         | 0.378  | BMB  |
| 3             | 3.30            | Nitrite   | 8.365        | 1.329          | 27.34         | 0.460  | BMB* |
| 4             | 4.33            | Bromide   | 1.271        | 0.229          | 4.72          | 0.428  | BMB* |
| 5             | 5.15            | Nitrate   | 6.087        | 1.425          | 29.30         | 0.387  | BMB  |
| 6             | 8.65            | Sulfate   | 1.253        | 0.445          | 9.16          | 0.452  | BMB  |
| <b>Total:</b> |                 |           | 29.536       | 4.862          | 100.00        | 2.547  |      |

After  
Initials MB

6/17/10/10

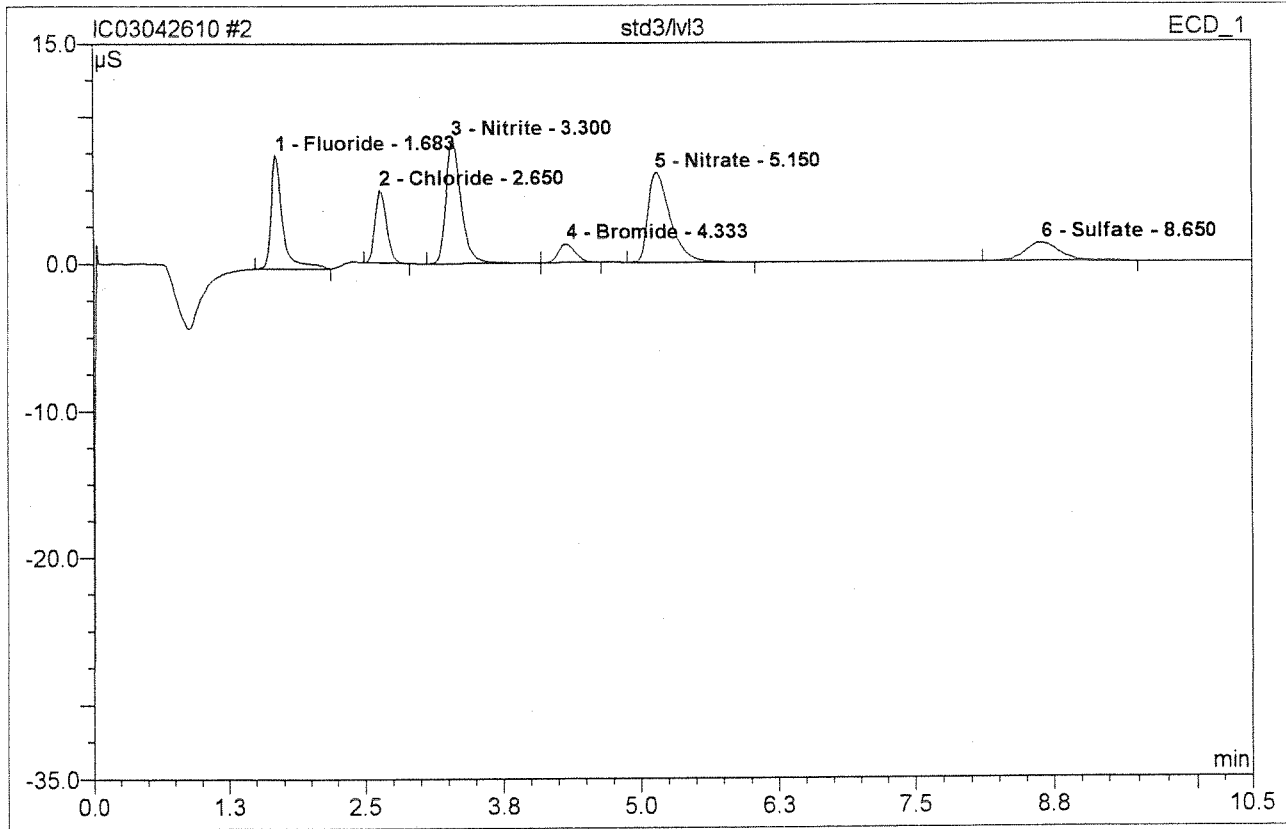
APR 26 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/Integration

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|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>2 std3/lvl3</b> |                |                   |        |
| Sample Name:       | std3/lvl3      | Injection Volume: | 200.0  |
| Vial Number:       | 2              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:12 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 7.720        | 0.949          | 19.04         | 0.510  | BMB  |
| 2             | 2.65            | Chloride  | 4.937        | 0.589          | 11.82         | 0.502  | BMB  |
| 3             | 3.30            | Nitrite   | 8.377        | 1.347          | 27.02         | 0.501  | BMB  |
| 4             | 4.33            | Bromide   | 1.271        | 0.229          | 4.60          | 0.501  | bMB  |
| 5             | 5.15            | Nitrate   | 6.087        | 1.425          | 28.59         | 0.500  | BMB  |
| 6             | 8.65            | Sulfate   | 1.253        | 0.445          | 8.93          | 0.500  | BMB  |
| <b>Total:</b> |                 |           | 29.644       | 4.984          | 100.00        | 3.015  |      |

Before

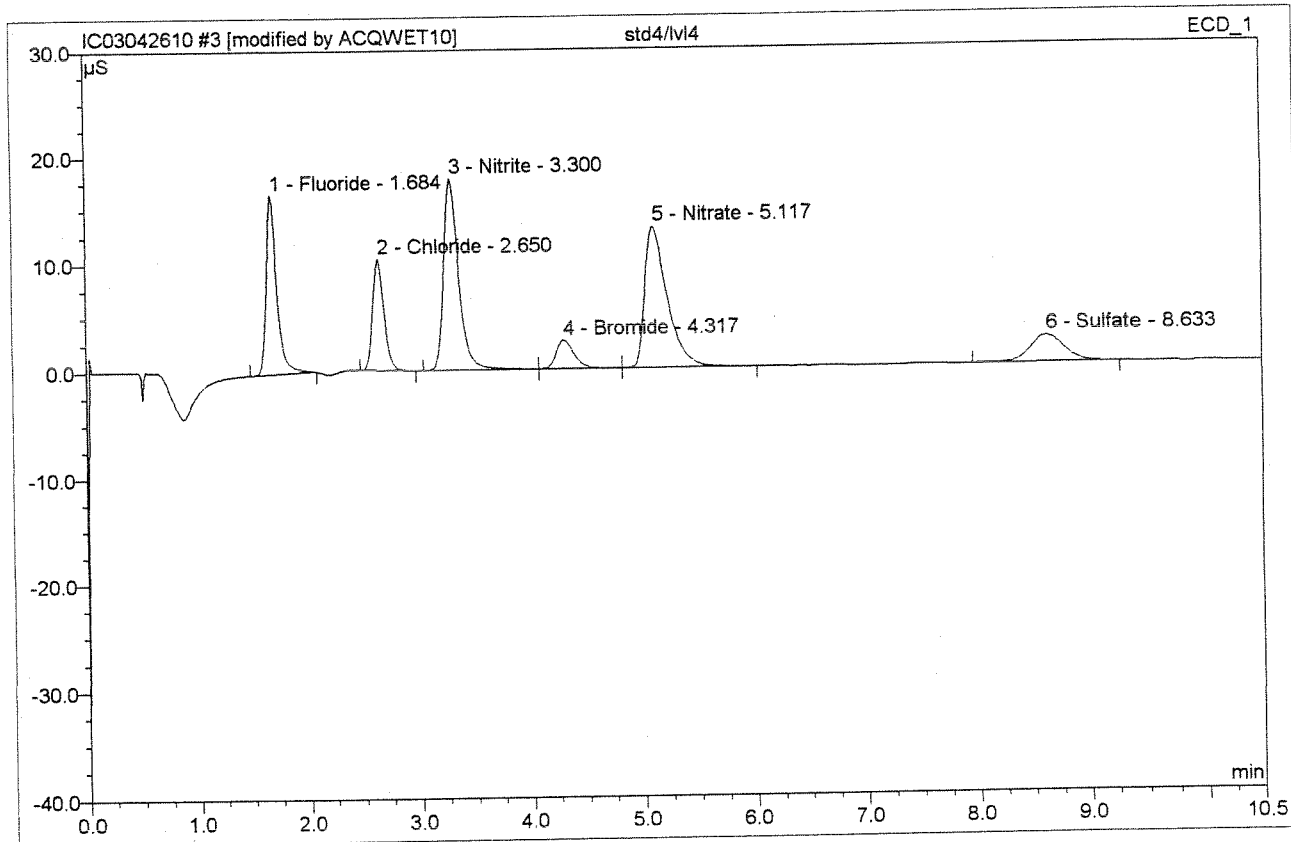
APR 26 2010

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Version 6.50 SP1 Build 956

**3 std4/lvl4**

Sample Name: **std4/lvl4**  
 Vial Number: **3**  
 Sample Type: **standard**  
 Control Program: **epa300**  
 Quantif. Method: **epa300**  
 Recording Time: **4/26/2010 9:25**  
 Run Time (min): **10.50**

Injection Volume: **200.0**  
 Channel: **ECD\_1**  
 Wavelength: **n.a.**  
 Bandwidth: **n.a.**  
 Dilution Factor: **1.0000**  
 Sample Weight: **1.0000**  
 Sample Amount: **1.0000**



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS  | Area<br>µS*min | Rel.Area<br>% | Amount       | Type |
|---------------|-----------------|-----------|---------------|----------------|---------------|--------------|------|
| 1             | 1.68            | Fluoride  | 16.676        | 1.811          | 17.64         | 0.947        | BMB* |
| 2             | 2.65            | Chloride  | 10.365        | 1.223          | 11.91         | 0.784        | BMB  |
| 3             | 3.30            | Nitrite   | 17.874        | 2.814          | 27.40         | 0.975        | BMB  |
| 4             | 4.32            | Bromide   | 2.661         | 0.487          | 4.74          | 0.908        | bMB  |
| 5             | 5.12            | Nitrate   | 13.149        | 3.046          | 29.66         | 0.827        | bMB  |
| 6             | 8.63            | Sulfate   | 2.522         | 0.888          | 8.65          | 0.903        | BMB  |
| <b>Total:</b> |                 |           | <b>63.248</b> | <b>10.270</b>  | <b>100.00</b> | <b>5.343</b> |      |

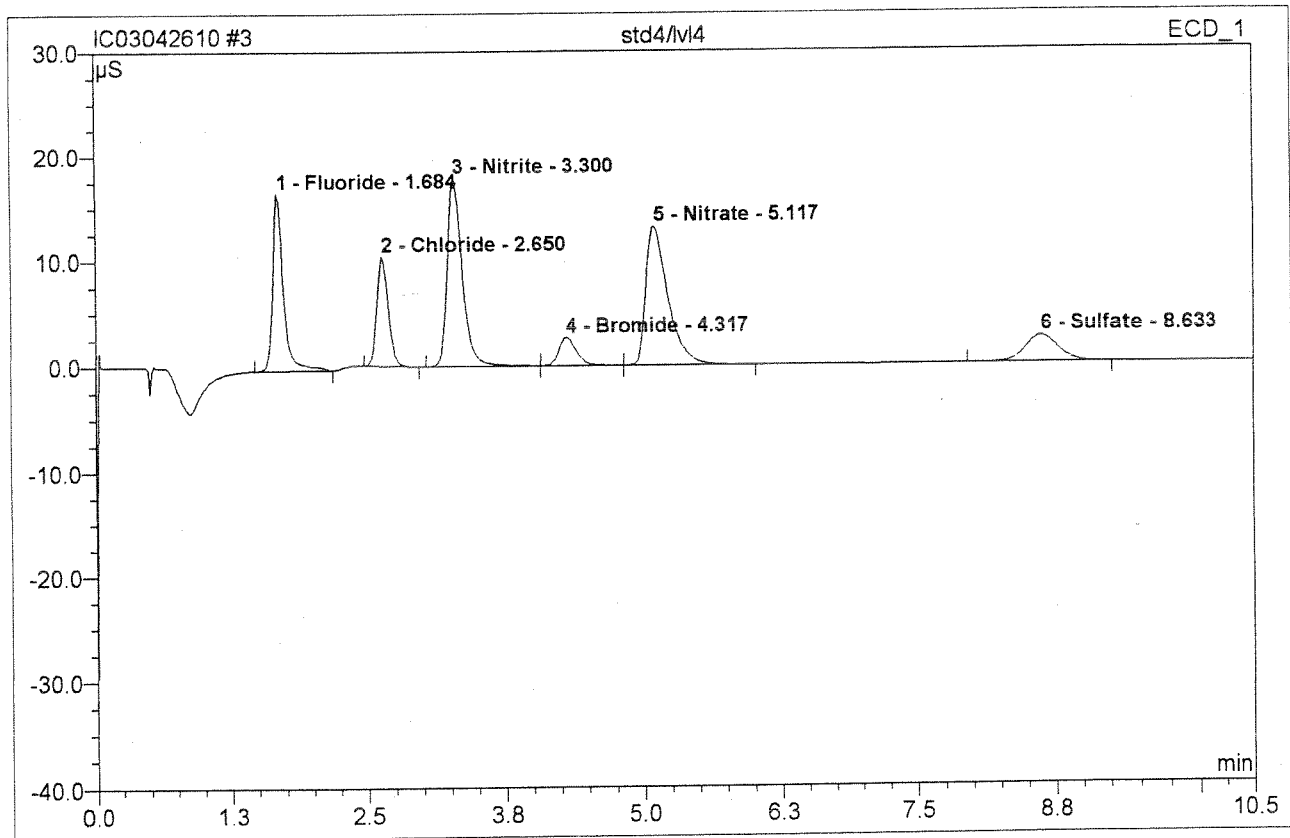
After  
Initials

*AR*

*4/26/10*

APR 26 2010

|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>3 std4/lvl4</b> |                |                   |        |
| Sample Name:       | std4/lvl4      | Injection Volume: | 200.0  |
| Vial Number:       | 3              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:25 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.68            | Fluoride  | 16.774       | 1.915          | 18.46         | 1.007  | BMB  |
| 2             | 2.65            | Chloride  | 10.365       | 1.223          | 11.79         | 1.009  | BMB  |
| 3             | 3.30            | Nitrite   | 17.874       | 2.814          | 27.13         | 1.009  | BMB  |
| 4             | 4.32            | Bromide   | 2.661        | 0.487          | 4.69          | 1.012  | bMB  |
| 5             | 5.12            | Nitrate   | 13.149       | 3.046          | 29.36         | 1.014  | bMB  |
| 6             | 8.63            | Sulfate   | 2.522        | 0.888          | 8.56          | 1.000  | BMB  |
| <b>Total:</b> |                 |           | 63.346       | 10.374         | 100.00        | 6.051  |      |

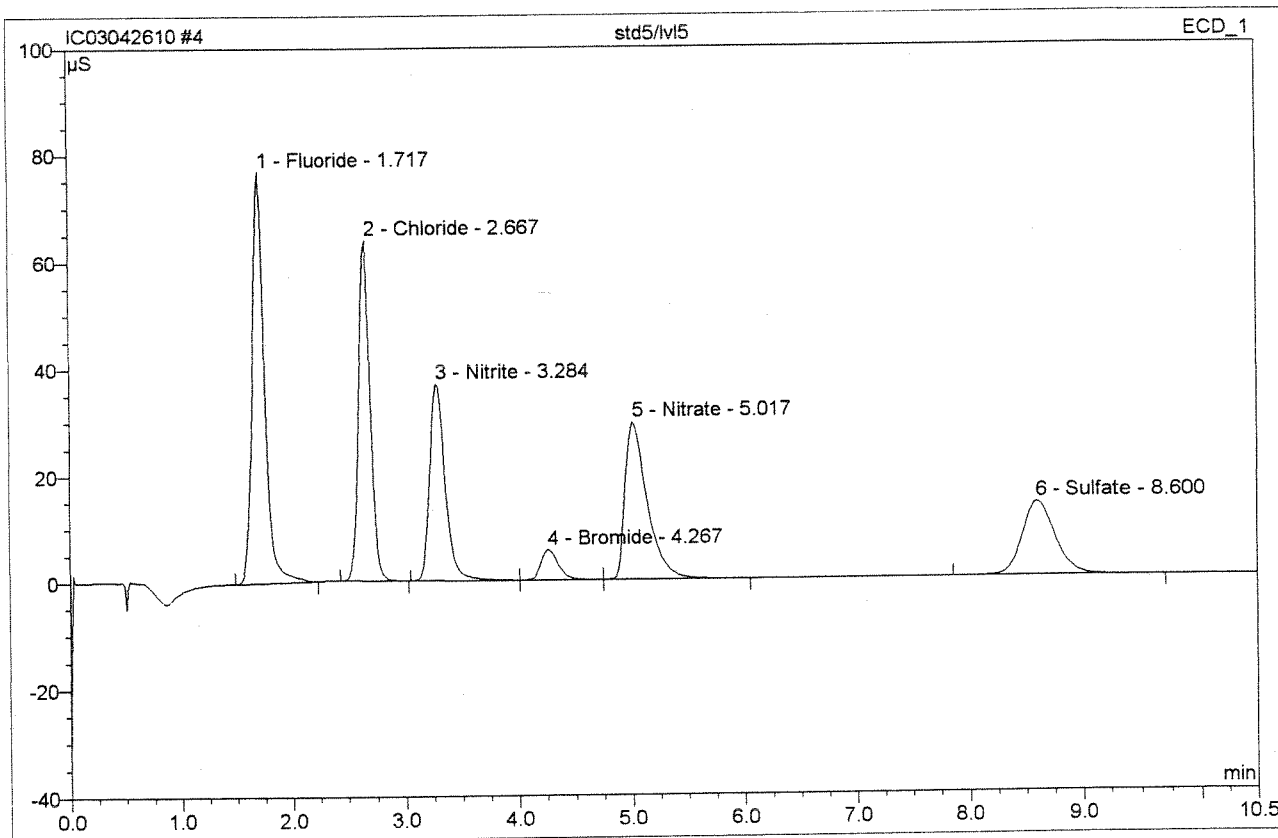
Before

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Version 6.50 SP1 Build 956

### 4 std5/lv15

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lv15      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



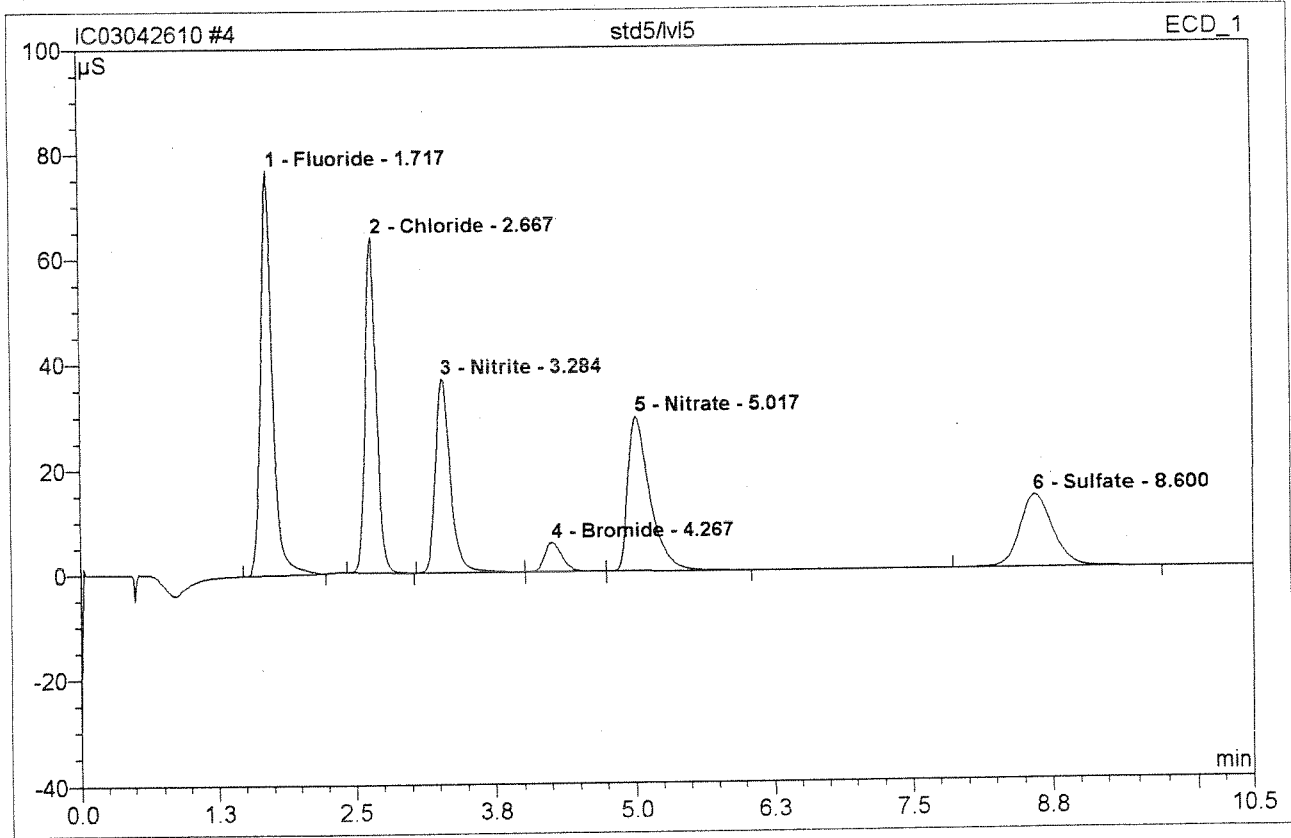
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.086  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 4.791  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.030  | BMB  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 1.879  | bMB  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 1.833  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 4.795  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 20.415 |      |

After Initials *(Signature)*

4/26/2010

**4 std5/lvl5**

|                  |                |                   |        |
|------------------|----------------|-------------------|--------|
| Sample Name:     | std5/lvl5      | Injection Volume: | 200.0  |
| Vial Number:     | 4              | Channel:          | ECD_1  |
| Sample Type:     | standard       | Wavelength:       | n.a.   |
| Control Program: | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 9:38 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 76.994       | 9.731          | 27.38         | 5.005  | BMB  |
| 2             | 2.67            | Chloride  | 63.721       | 7.472          | 21.02         | 5.047  | BMB  |
| 3             | 3.28            | Nitrite   | 36.986       | 5.862          | 16.49         | 2.024  | BMb  |
| 4             | 4.27            | Bromide   | 5.677        | 1.007          | 2.83          | 2.022  | bMb  |
| 5             | 5.02            | Nitrate   | 29.541       | 6.754          | 19.00         | 2.054  | bMB  |
| 6             | 8.60            | Sulfate   | 13.884       | 4.718          | 13.27         | 5.014  | BMB  |
| <b>Total:</b> |                 |           | 226.803      | 35.544         | 100.00        | 21.166 |      |

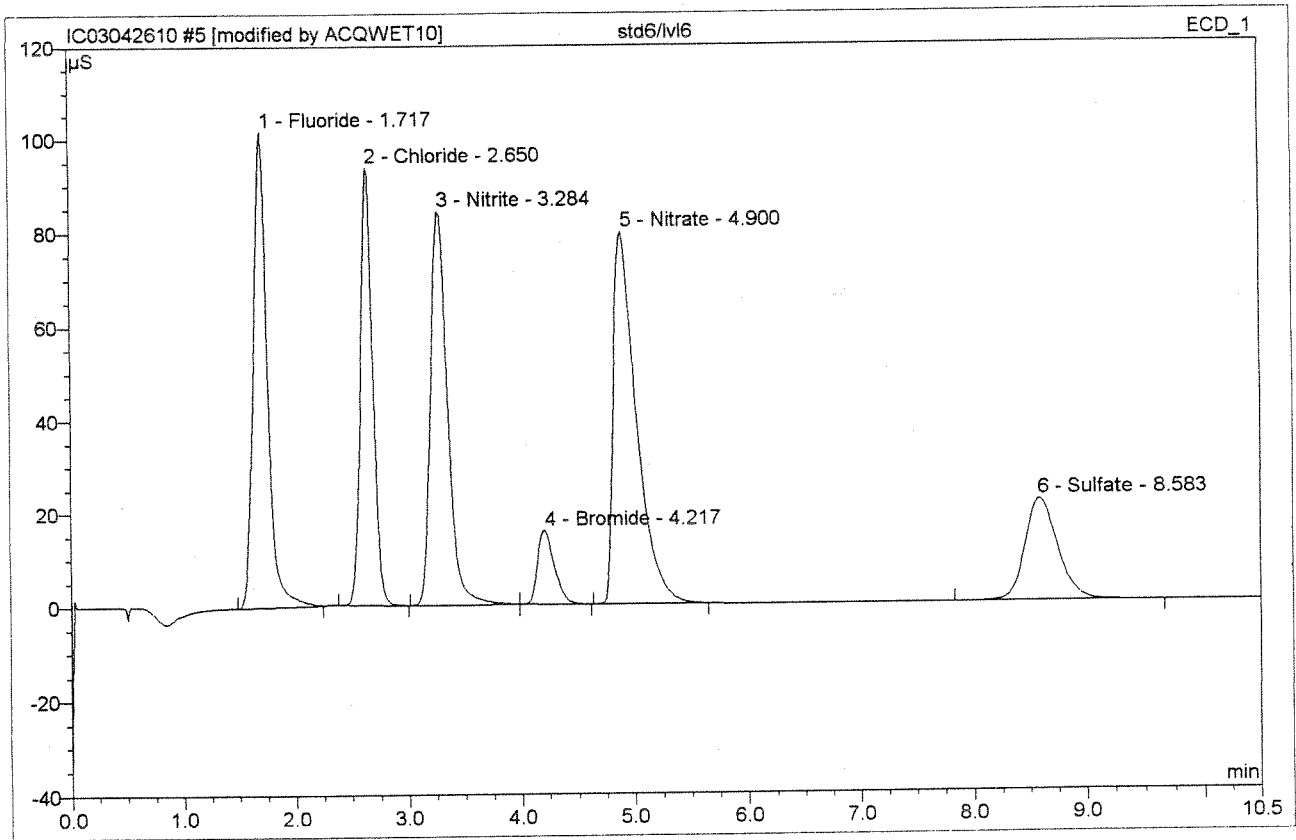
Before

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Version 6.50 SP1 Build 956



|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>5 std6/lvl6</b> |                |                   |        |
| Sample Name:       | std6/lvl6      | Injection Volume: | 200.0  |
| Vial Number:       | 5              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:51 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



| No.           | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|--------------|-----------|-----------|-------------|------------|--------|------|
| 1             | 1.72         | Fluoride  | 101.686   | 14.494      | 20.88      | 7.575  | BMB* |
| 2             | 2.65         | Chloride  | 93.434    | 11.601      | 16.71      | 7.439  | BMB* |
| 3             | 3.28         | Nitrite   | 84.060    | 14.428      | 20.79      | 4.997  | BMB  |
| 4             | 4.22         | Bromide   | 15.785    | 2.719       | 3.92       | 5.074  | bMB  |
| 5             | 4.90         | Nitrate   | 79.649    | 18.837      | 27.14      | 5.113  | BMB* |
| 6             | 8.58         | Sulfate   | 21.861    | 7.333       | 10.56      | 7.452  | BMB  |
| <b>Total:</b> |              |           | 396.475   | 69.412      | 100.00     | 37.650 |      |

After  
white MB

6/11/2010

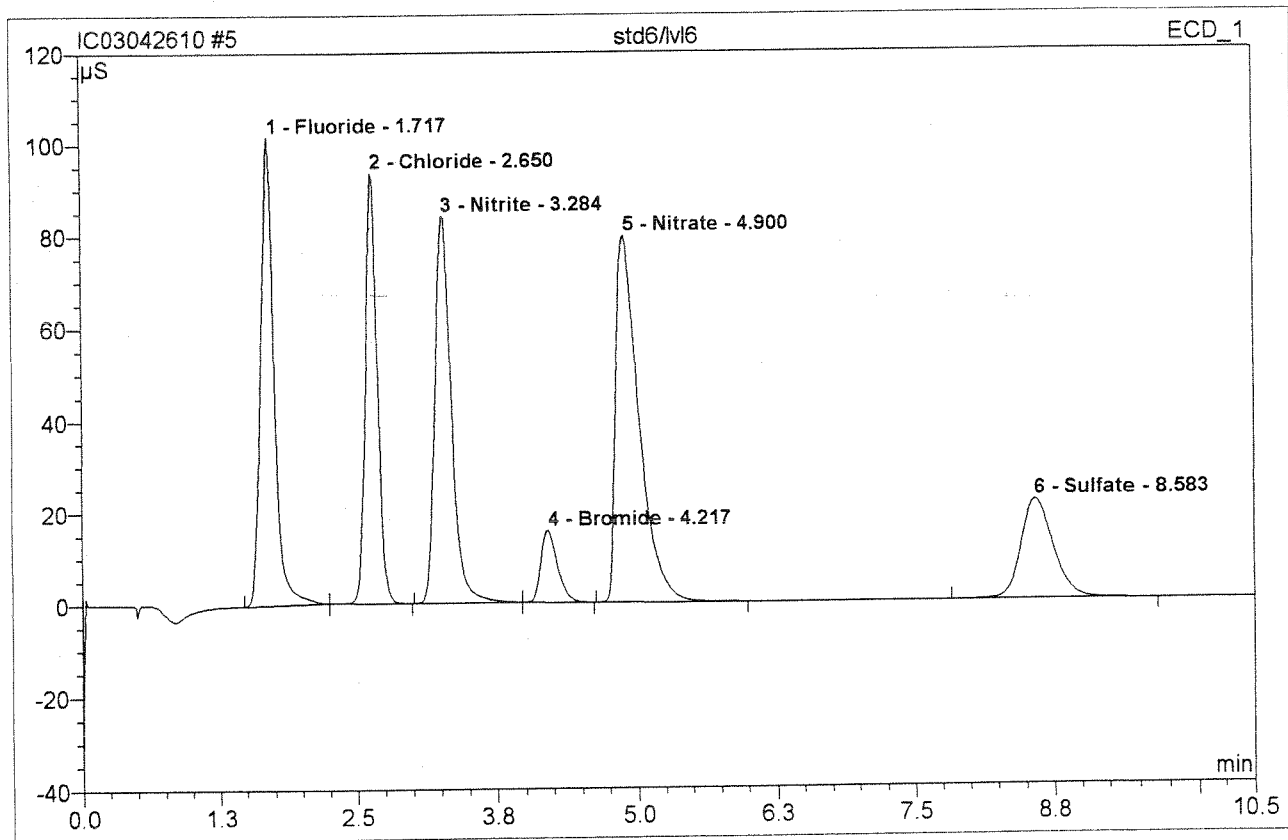
default/Integration

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Version 6.50 SP1 Build 956

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|                    |                |                   |        |
|--------------------|----------------|-------------------|--------|
| <b>5 std6/lv16</b> |                |                   |        |
| Sample Name:       | std6/lv16      | Injection Volume: | 200.0  |
| Vial Number:       | 5              | Channel:          | ECD_1  |
| Sample Type:       | standard       | Wavelength:       | n.a.   |
| Control Program:   | epa300         | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300         | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 9:51 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50          | Sample Amount:    | 1.0000 |



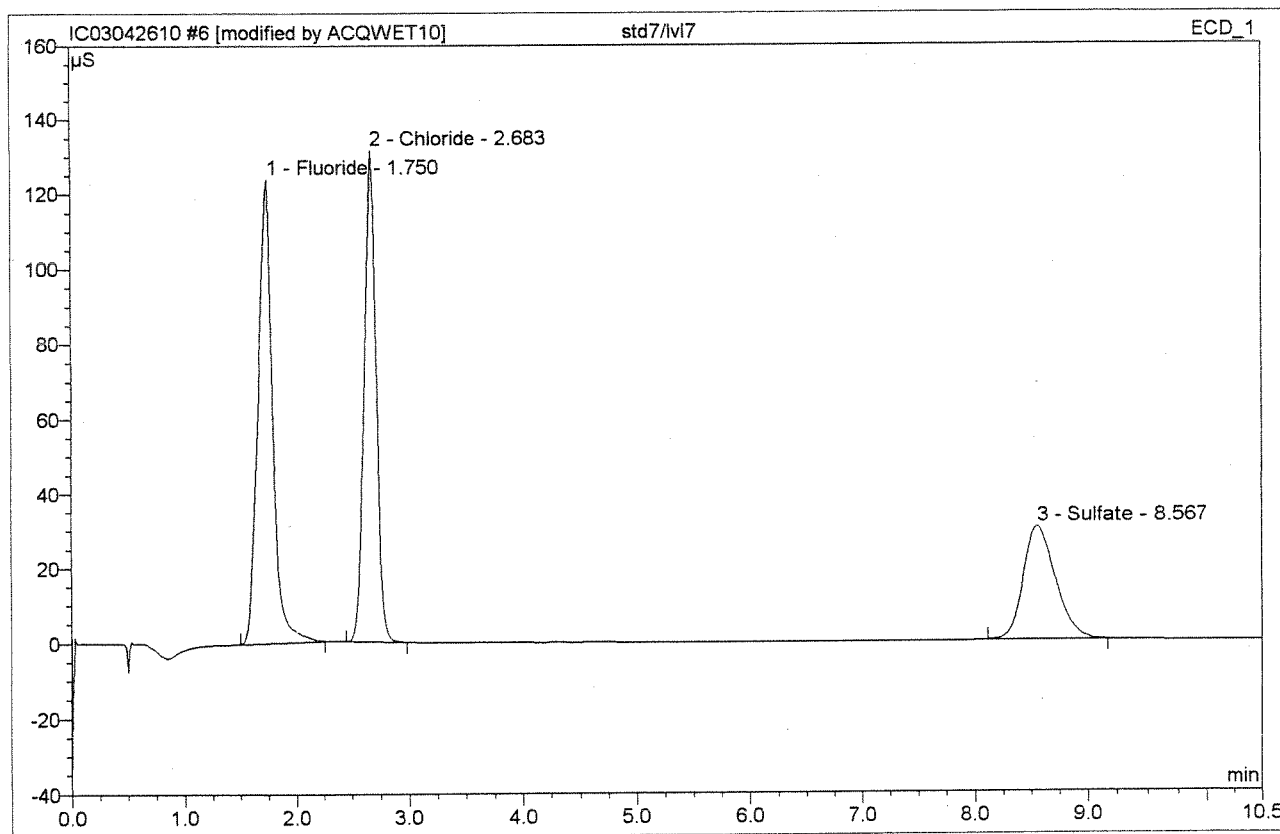
| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.72            | Fluoride  | 101.686      | 14.494         | 20.85         | 7.486  | BMb  |
| 2             | 2.65            | Chloride  | 93.503       | 11.647         | 16.75         | 7.613  | bMB  |
| 3             | 3.28            | Nitrite   | 84.060       | 14.428         | 20.76         | 4.997  | BMb  |
| 4             | 4.22            | Bromide   | 15.785       | 2.719          | 3.91          | 5.074  | bMB  |
| 5             | 4.90            | Nitrate   | 79.672       | 18.892         | 27.18         | 5.115  | BMB  |
| 6             | 8.58            | Sulfate   | 21.861       | 7.333          | 10.55         | 7.591  | BMB  |
| <b>Total:</b> |                 |           | 396.568      | 69.512         | 100.00        | 37.876 |      |

Before

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Version 6.50 SP1 Build 956

|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lv17</b> |                 |                   |        |
| Sample Name:       | std7/lv17       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|------------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 1.75             | Fluoride  | 123.905      | 18.962         | 42.30         | 9.910  | BMB* |
| 2             | 2.68             | Chloride  | 131.265      | 15.874         | 35.41         | 10.179 | BMB* |
| 3             | 8.57             | Sulfate   | 30.278       | 9.990          | 22.29         | 10.151 | BMB* |
| <b>Total:</b> |                  |           | 285.448      | 44.826         | 100.00        | 30.240 |      |

After initials MB

6-11-03/11

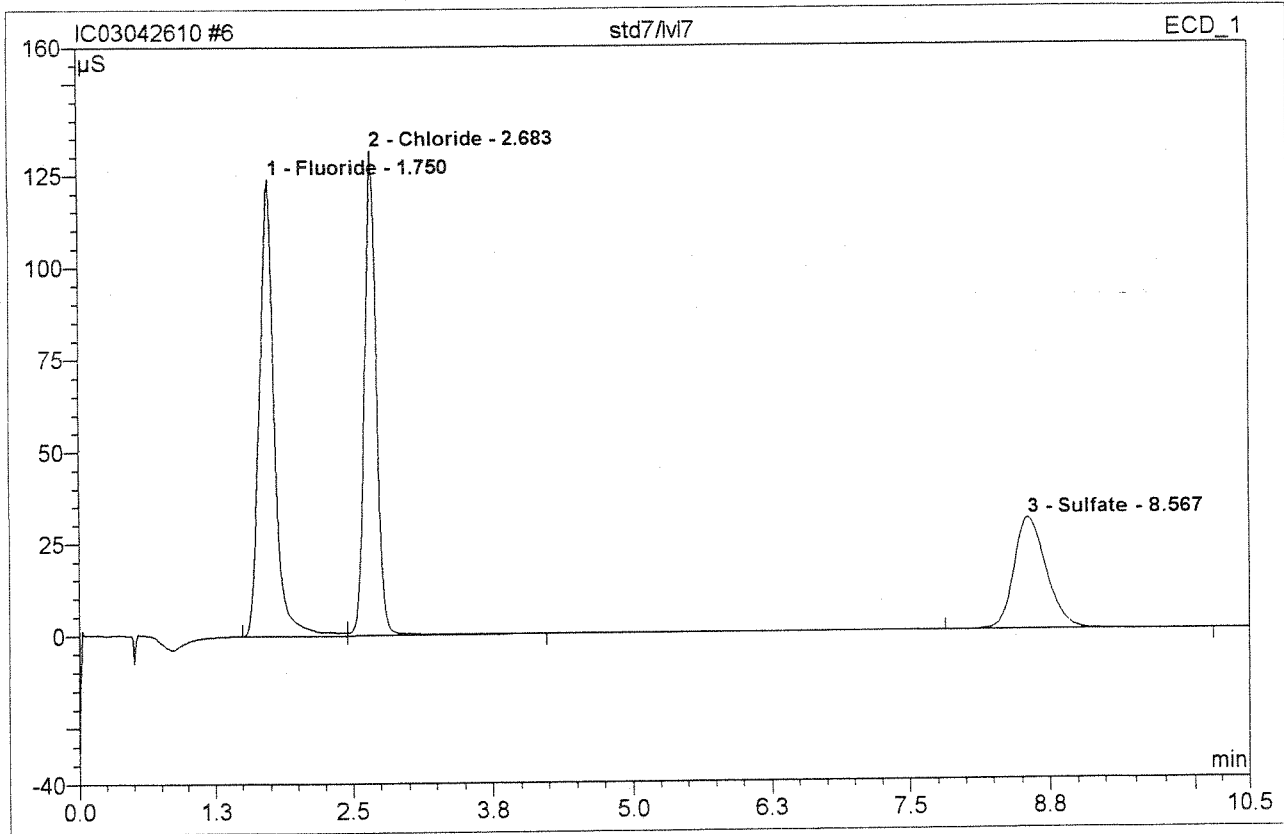
APR 26 2010

default/Integration

Chromatogram File: IC03042610 #6  
 Integration File: IC03042610 #6  
 Report File: IC03042610 #6

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

|                    |                 |                   |        |
|--------------------|-----------------|-------------------|--------|
| <b>6 std7/lvl7</b> |                 |                   |        |
| Sample Name:       | std7/lvl7       | Injection Volume: | 200.0  |
| Vial Number:       | 6               | Channel:          | ECD_1  |
| Sample Type:       | standard        | Wavelength:       | n.a.   |
| Control Program:   | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:   | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:    | 4/26/2010 10:04 | Sample Weight:    | 1.0000 |
| Run Time (min):    | 10.50           | Sample Amount:    | 1.0000 |

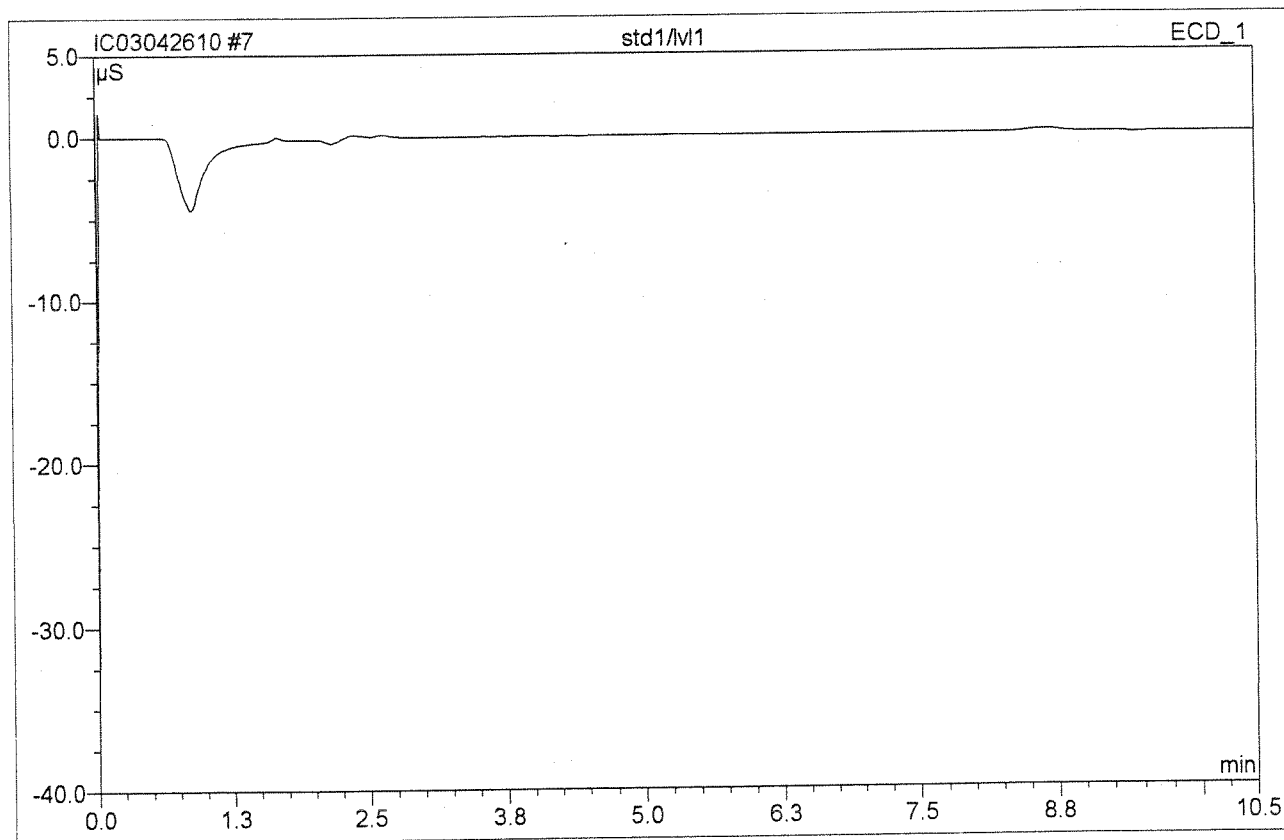


| No.           | Ret. Time min | Peak Name | Height μS      | Area μS*min   | Rel. Area %   | Amount        | Type |
|---------------|---------------|-----------|----------------|---------------|---------------|---------------|------|
| 1             | 1.75          | Fluoride  | 124.185        | 19.437        | 42.28         | 10.022        | BM   |
| 2             | 2.68          | Chloride  | 131.836        | 16.307        | 35.47         | 10.300        | MB   |
| 3             | 8.57          | Sulfate   | 30.454         | 10.233        | 22.26         | 10.259        | BMB  |
| <b>Total:</b> |               |           | <b>286.475</b> | <b>45.977</b> | <b>100.00</b> | <b>30.581</b> |      |

Before

APR 26 2010

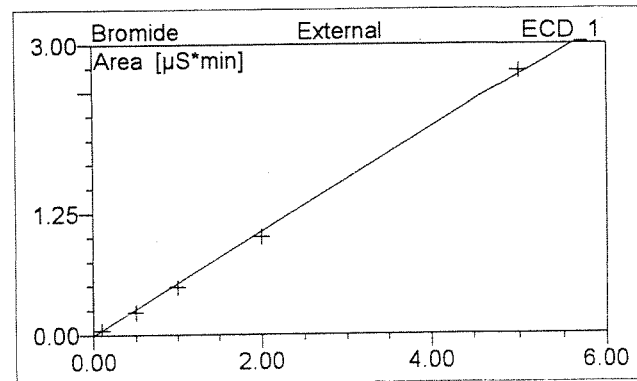
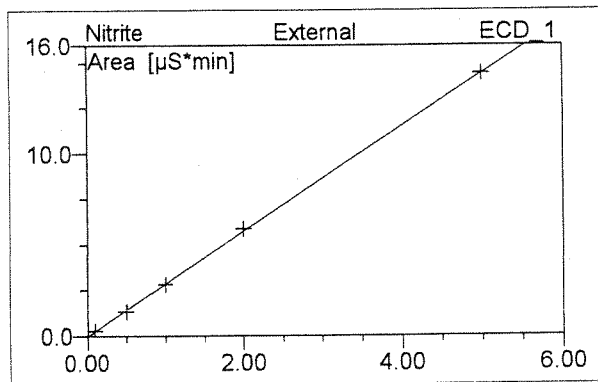
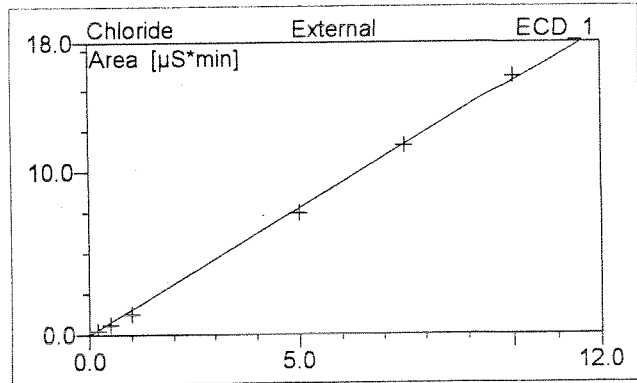
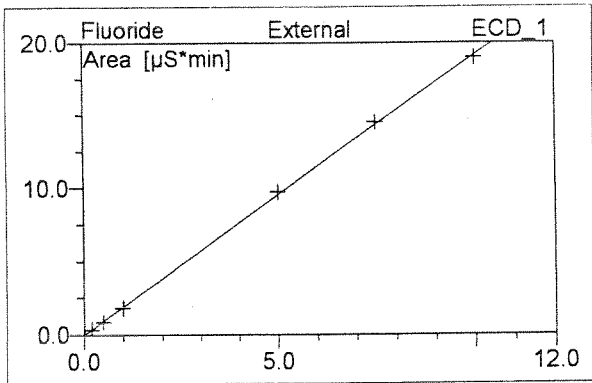
|                   |                 |                   |        |
|-------------------|-----------------|-------------------|--------|
| <b>7 std1/lv1</b> |                 |                   |        |
| Sample Name:      | std1/lv1        | Injection Volume: | 200.0  |
| Vial Number:      | 7               | Channel:          | ECD_1  |
| Sample Type:      | standard        | Wavelength:       | n.a.   |
| Control Program:  | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method:  | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:   | 4/26/2010 10:17 | Sample Weight:    | 1.0000 |
| Run Time (min):   | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| <b>Total:</b> |                 |           | 0.000        | 0.000          | 0.00          | 0.000  |      |

6/4/10

|  |                                |
|--|--------------------------------|
| <b>7 std1/lvl1</b>                     |                                |
| Sample Name: <b>std1/lvl1</b>          | Injection Volume: <b>200.0</b> |
| Vial Number: <b>7</b>                  | Channel: <b>ECD_1</b>          |
| Sample Type: <b>standard</b>           | Wavelength: <b>n.a.</b>        |
| Control Program: <b>epa300</b>         | Bandwidth: <b>n.a.</b>         |
| Quantif. Method: <b>epa300</b>         | Dilution Factor: <b>1.0000</b> |
| Recording Time: <b>4/26/2010 10:17</b> | Sample Weight: <b>1.0000</b>   |
| Run Time (min): <b>10.50</b>           | Sample Amount: <b>1.0000</b>   |

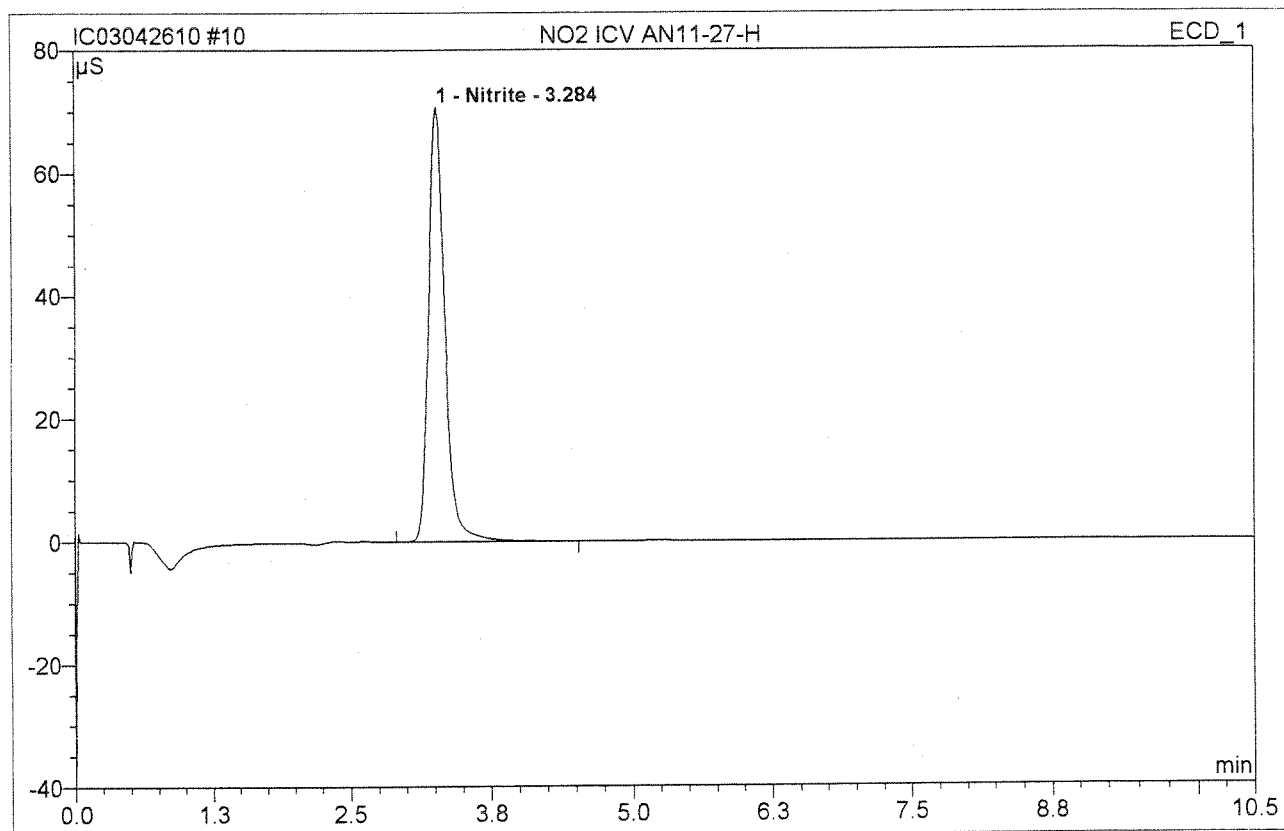


| No.      | Ret.Time<br>min | Peak Name | Cal.Type | Points | Corr.Coeff.<br>% | Offset | Slope | Curve |
|----------|-----------------|-----------|----------|--------|------------------|--------|-------|-------|
| Average: |                 |           |          |        | n.a.             | n.a.   | n.a.  | n.a.  |

*BJ 4/26/10*



| 10 NO2 ICV AN11-27-H |                   |                   |         |
|----------------------|-------------------|-------------------|---------|
| NO2 ICV              |                   |                   |         |
| Sample Name:         | NO2 ICV AN11-27-H | Injection Volume: | 200.0   |
| Vial Number:         | 10                | Channel:          | ECD_1   |
| Sample Type:         | unknown           | Wavelength:       | n.a.    |
| Control Program:     | epa300            | Bandwidth:        | n.a.    |
| Quantif. Method:     | epa300            | Dilution Factor:  | 25.0000 |
| Recording Time:      | 4/26/2010 11:05   | Sample Weight:    | 1.0000  |
| Run Time (min):      | 10.50             | Sample Amount:    | 1.0000  |

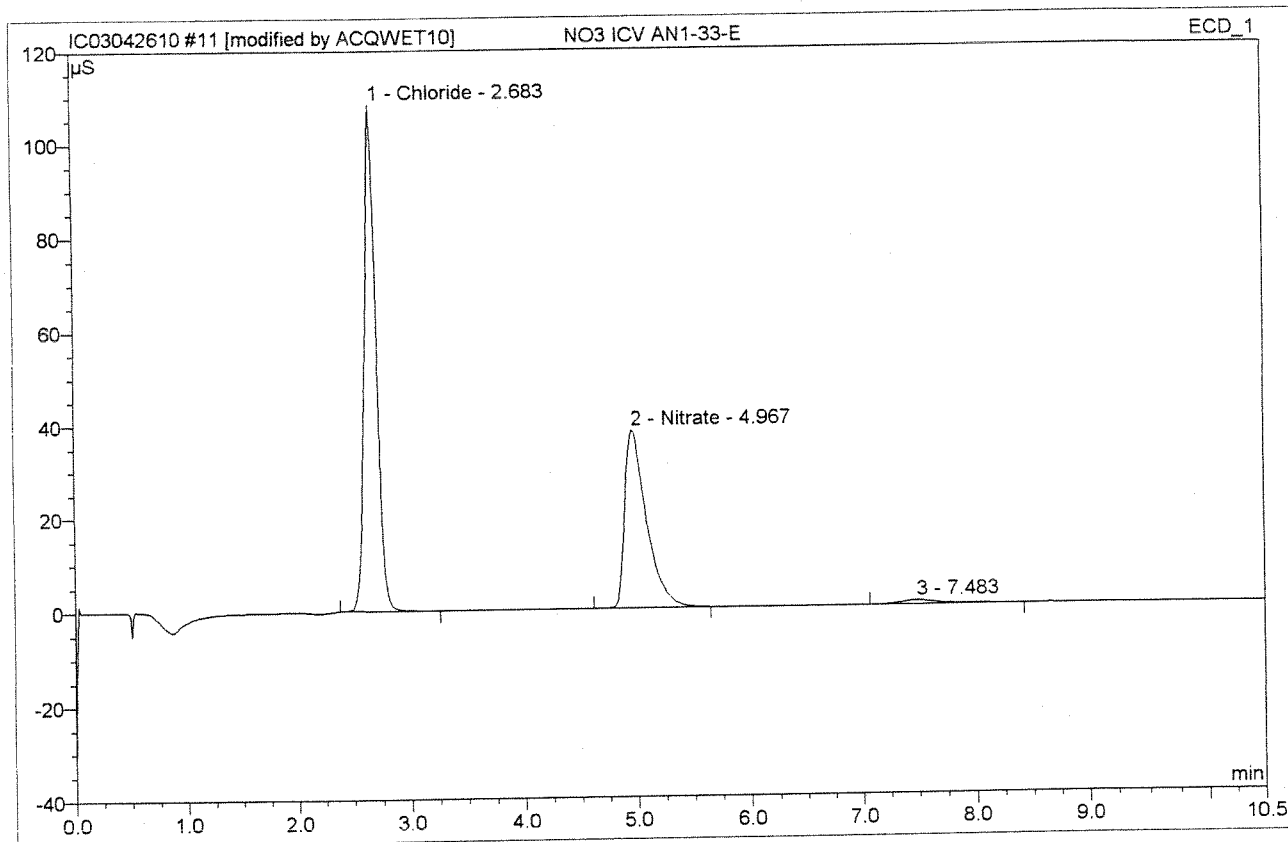


| No.           | Ret. Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel. Area<br>% | Amount  | Type     |
|---------------|------------------|-----------|--------------|----------------|----------------|---------|----------|
| 1             | 3.28             | Nitrite   | 70.856       | 11.827         | 100.00         | 102.405 | 102% BMB |
| <b>Total:</b> |                  |           | 70.856       | 11.827         | 100.00         | 102.405 |          |

# 11 NO3 ICV AN1-33-E

## NO3 ICV

|                  |                  |                   |         |
|------------------|------------------|-------------------|---------|
| Sample Name:     | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:     | 11               | Channel:          | ECD_1   |
| Sample Type:     | unknown          | Wavelength:       | n.a.    |
| Control Program: | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method: | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:  | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):  | 10.50            | Sample Amount:    | 1.0000  |



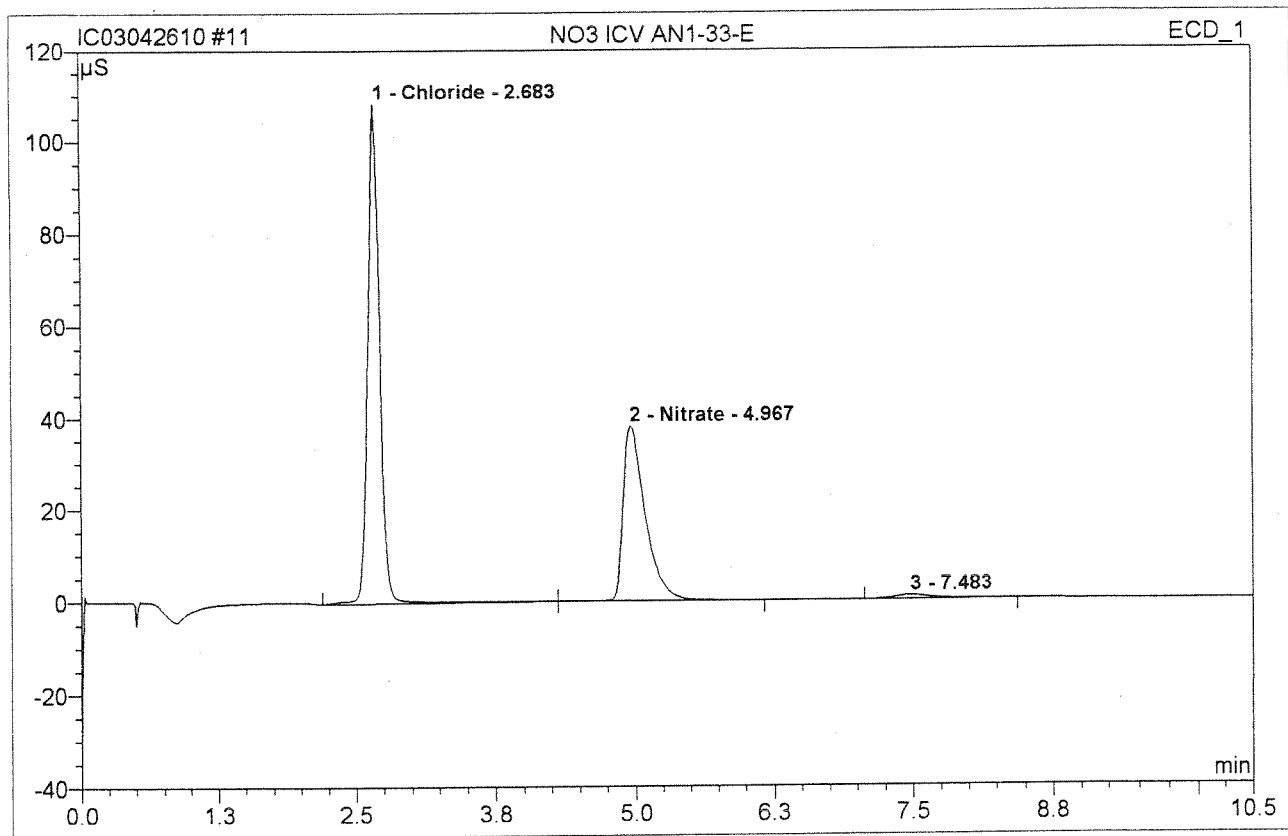
| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount             | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------------------|------|
| 1             | 2.68            | Chloride  | 108.172      | 12.864         | 59.17         | 82.484             | BMB* |
| 2             | 4.97            | Nitrate   | 38.103       | 8.551          | 39.33         | 23.211 <i>110%</i> | BMB* |
| 3             | 7.48            | n.a.      | 0.823        | 0.326          | 1.50          | n.a.               | BMB  |
| <b>Total:</b> |                 |           | 147.098      | 21.741         | 100.00        | 105.695            |      |

Area  
118

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4/26/10

|                            |                  |                   |         |
|----------------------------|------------------|-------------------|---------|
| <b>11 NO3 ICV AN1-33-E</b> |                  |                   |         |
| <b>NO3 ICV</b>             |                  |                   |         |
| Sample Name:               | NO3 ICV AN1-33-E | Injection Volume: | 200.0   |
| Vial Number:               | 11               | Channel:          | ECD_1   |
| Sample Type:               | unknown          | Wavelength:       | n.a.    |
| Control Program:           | epa300           | Bandwidth:        | n.a.    |
| Quantif. Method:           | epa300           | Dilution Factor:  | 10.0000 |
| Recording Time:            | 4/26/2010 11:18  | Sample Weight:    | 1.0000  |
| Run Time (min):            | 10.50            | Sample Amount:    | 1.0000  |

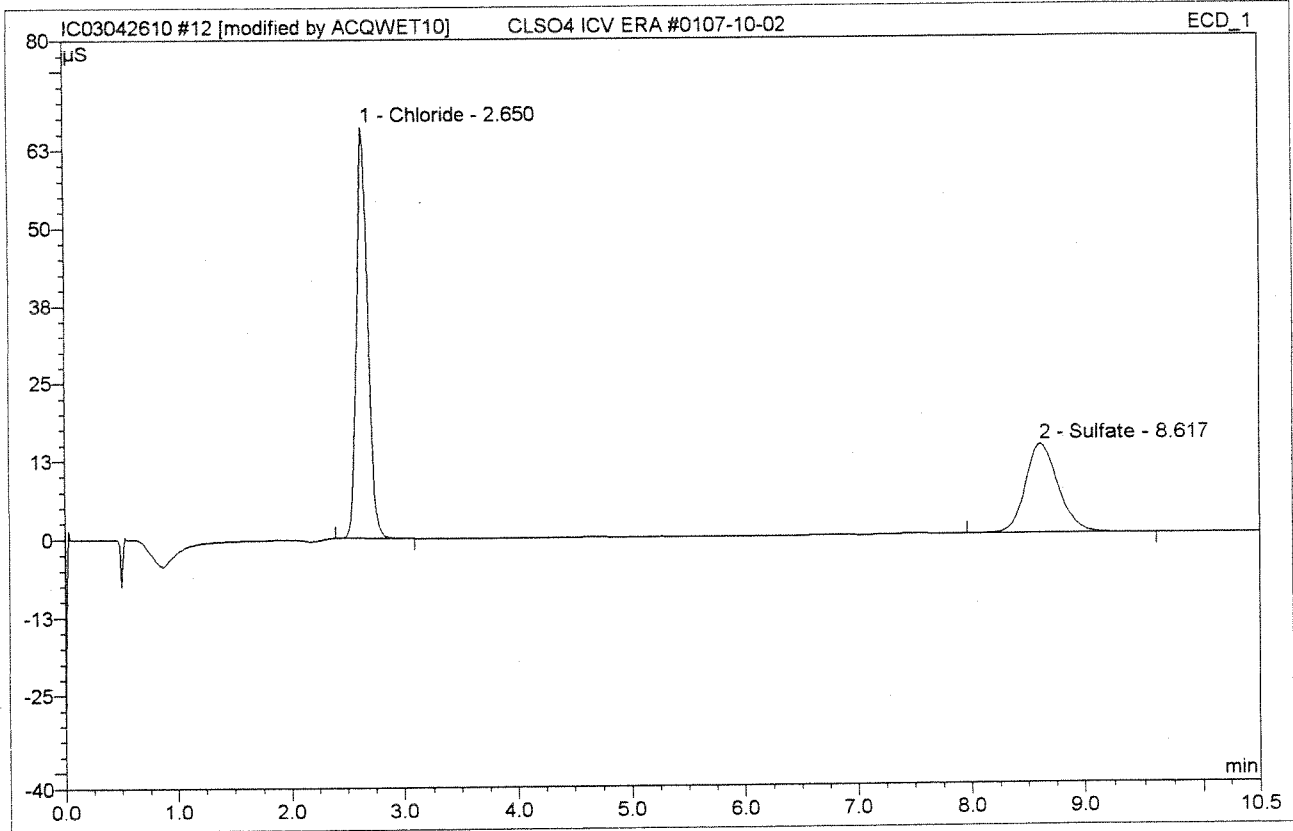


| No.           | Ret.Time<br>min | Peak Name | Height<br>$\mu\text{S}$ | Area<br>$\mu\text{S}\cdot\text{min}$ | Rel.Area<br>% | Amount  | Type |
|---------------|-----------------|-----------|-------------------------|--------------------------------------|---------------|---------|------|
| 1             | 2.68            | Chloride  | 108.576                 | 13.345                               | 59.83         | 85.571  | BMB  |
| 2             | 4.97            | Nitrate   | 38.156                  | 8.633                                | 38.70         | 23.433  | bMB  |
| 3             | 7.48            | n.a.      | 0.823                   | 0.326                                | 1.46          | n.a.    | BMB  |
| <b>Total:</b> |                 |           | 147.556                 | 22.304                               | 100.00        | 109.004 |      |

Before

APR 26 2010

|                                     |                           |                   |        |
|-------------------------------------|---------------------------|-------------------|--------|
| <b>12 CLSO4 ICV ERA #0107-10-02</b> |                           |                   |        |
| <b>CLSO4 ICV</b>                    |                           |                   |        |
| Sample Name:                        | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:                        | 12                        | Channel:          | ECD_1  |
| Sample Type:                        | unknown                   | Wavelength:       | n.a.   |
| Control Program:                    | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method:                    | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:                     | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):                     | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel.Area<br>% | Amount   | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|----------|------|
| 1             | 2.65            | Chloride  | 65.962       | 7.498          | 61.00         | 4.808962 | BMB* |
| 2             | 8.62            | Sulfate   | 14.257       | 4.794          | 39.00         | 4.871972 | BMB  |
| <b>Total:</b> |                 |           | 80.219       | 12.292         | 100.00        | 9.679    |      |

After Initials MB

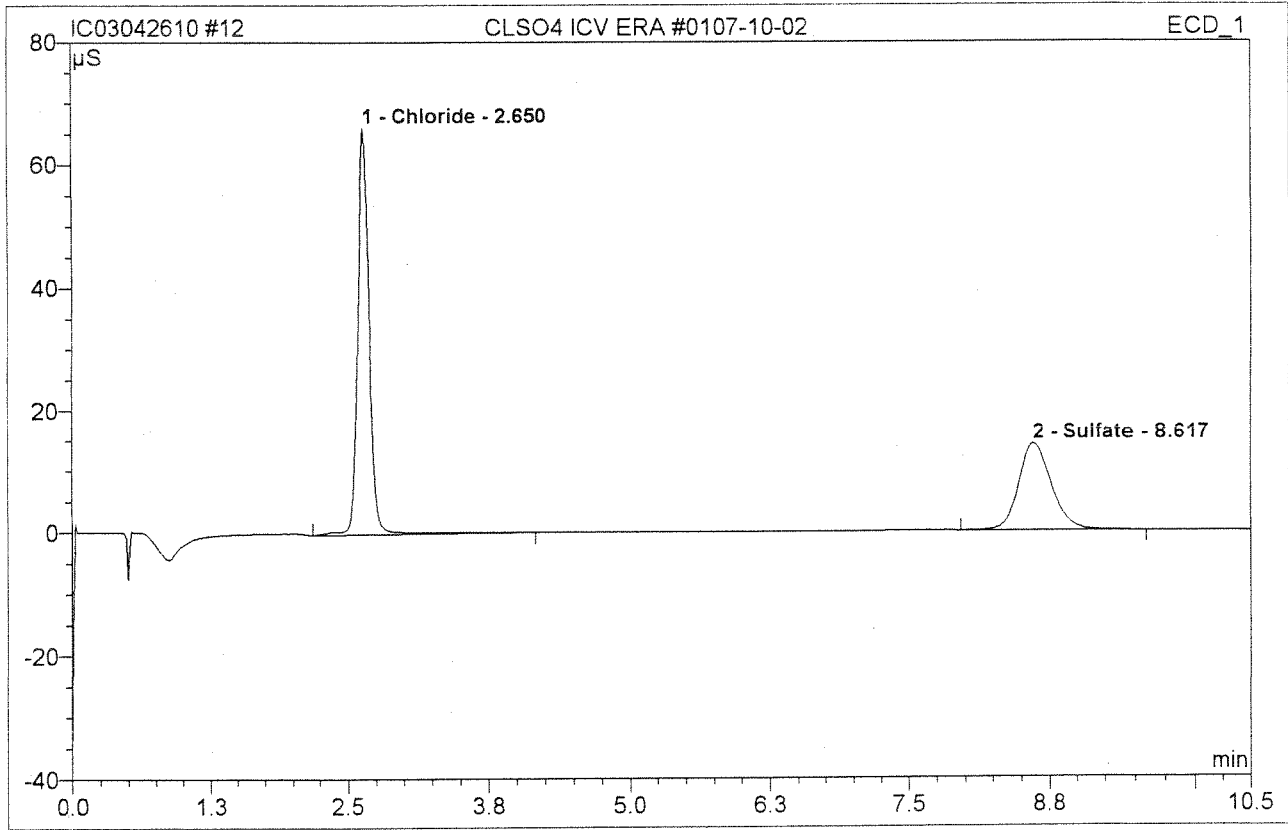
APR 26 2010

Chromeleon (c) Dionex 1996-2001  
Version 6.50 SP1 Build 956

default/Integration

File: C:\data\1004\1004042610\1004042610\_12.d  
Printed: 4/26/2010 11:46 AM

|                                     |                           |                   |        |
|-------------------------------------|---------------------------|-------------------|--------|
| <b>12 CLSO4 ICV ERA #0107-10-02</b> |                           |                   |        |
| <b>CLSO4 ICV</b>                    |                           |                   |        |
| Sample Name:                        | CLSO4 ICV ERA #0107-10-02 | Injection Volume: | 200.0  |
| Vial Number:                        | 12                        | Channel:          | ECD_1  |
| Sample Type:                        | unknown                   | Wavelength:       | n.a.   |
| Control Program:                    | epa300                    | Bandwidth:        | n.a.   |
| Quantif. Method:                    | epa300                    | Dilution Factor:  | 1.0000 |
| Recording Time:                     | 4/26/2010 11:30           | Sample Weight:    | 1.0000 |
| Run Time (min):                     | 10.50                     | Sample Amount:    | 1.0000 |



| No.           | Ret.Time<br>min | Peak Name | Height<br>μS | Area<br>μS*min | Rel.Area<br>% | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1             | 2.65            | Chloride  | 66.369       | 7.929          | 62.32         | 5.084  | BMB  |
| 2             | 8.62            | Sulfate   | 14.257       | 4.794          | 37.68         | 4.871  | BMB  |
| <b>Total:</b> |                 |           | 80.625       | 12.723         | 100.00        | 9.956  |      |

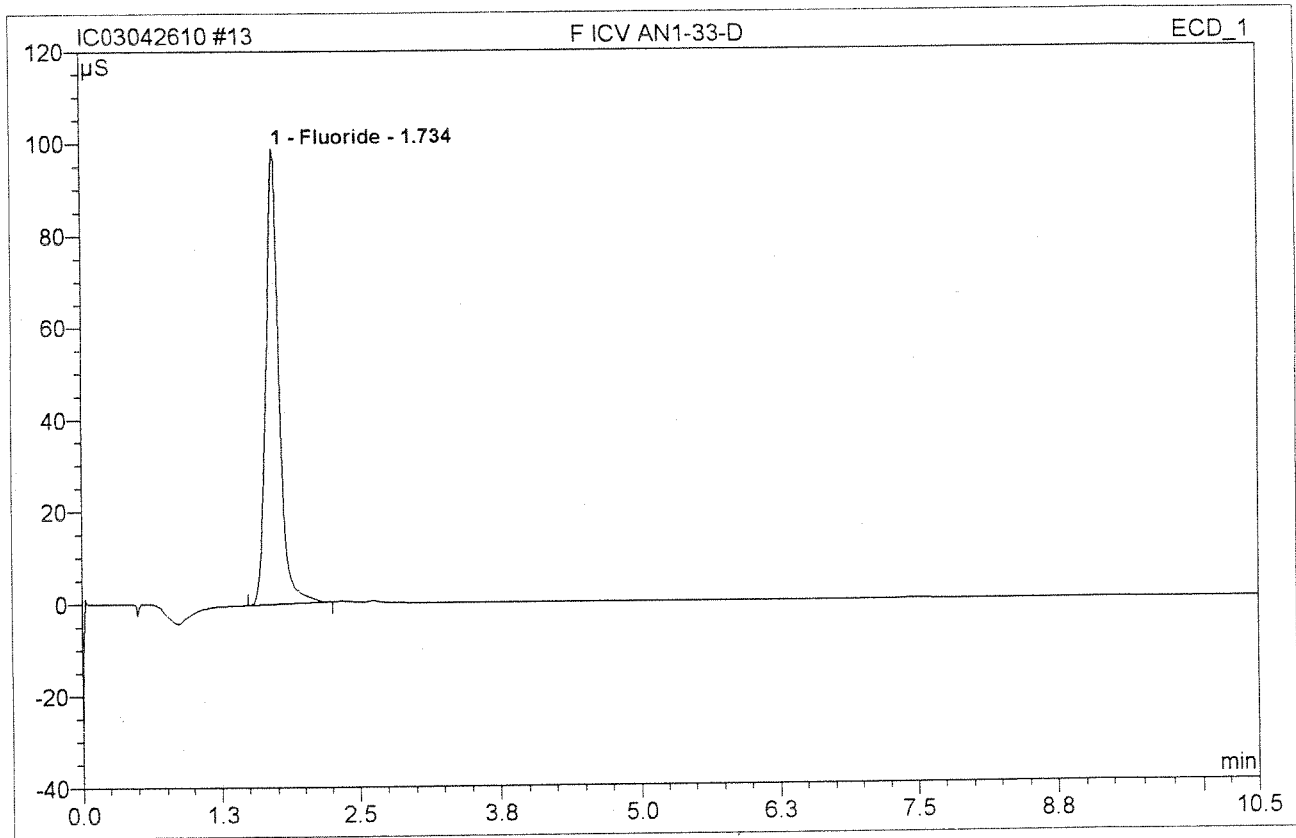
Before

APR 26 2010

### 13 F ICV AN1-33-D

#### F ICV

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | F ICV AN1-33-D  | Injection Volume: | 200.0  |
| Vial Number:     | 13              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 2.0000 |
| Recording Time:  | 4/26/2010 11:43 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



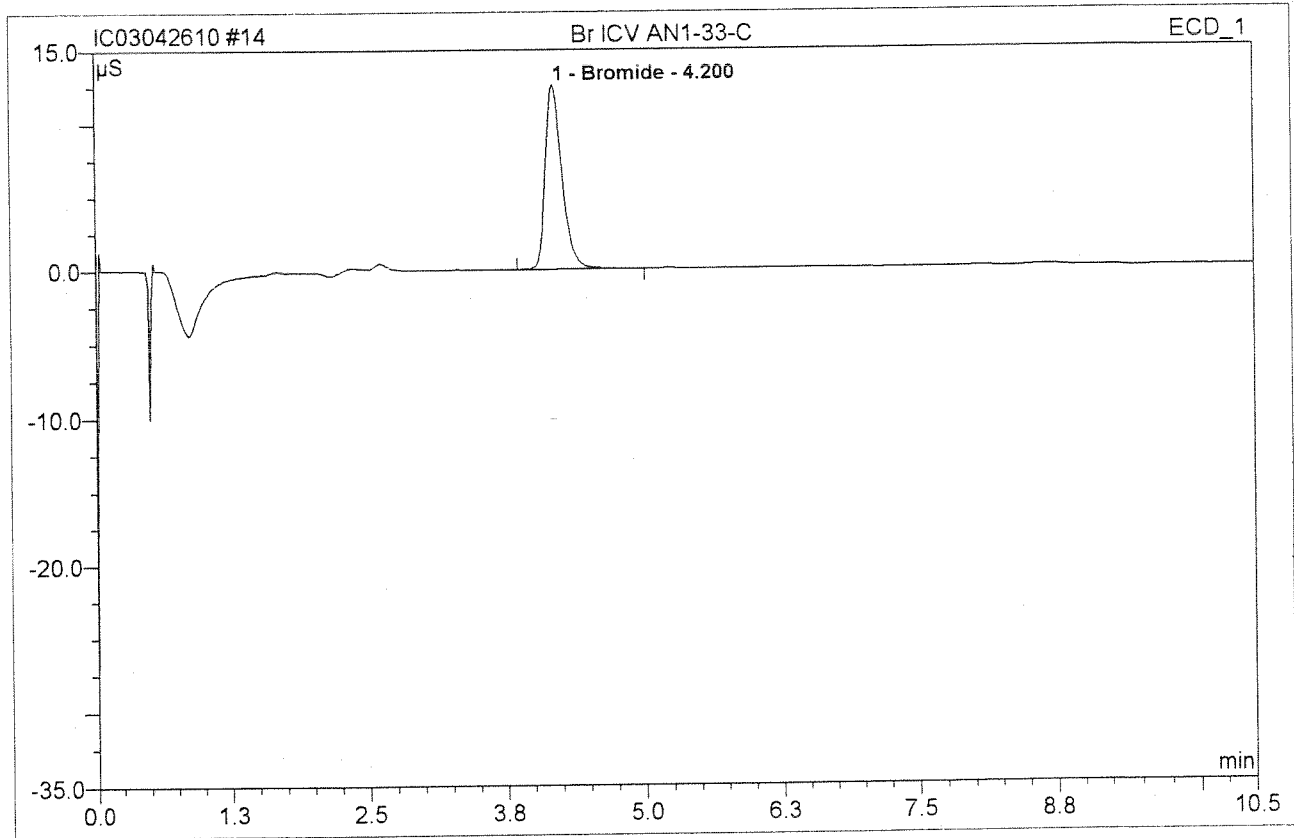
| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount     | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|------------|------|
| 1             | 1.73             | Fluoride  | 98.959       | 13.315         | 100.00         | 13.9171032 | BMB  |
| <b>Total:</b> |                  |           | 98.959       | 13.315         | 100.00         | 13.917     |      |



# 14 Br ICV AN1-33-C

## Br ICV

|                  |                 |                   |        |
|------------------|-----------------|-------------------|--------|
| Sample Name:     | Br ICV AN1-33-C | Injection Volume: | 200.0  |
| Vial Number:     | 14              | Channel:          | ECD_1  |
| Sample Type:     | unknown         | Wavelength:       | n.a.   |
| Control Program: | epa300          | Bandwidth:        | n.a.   |
| Quantif. Method: | epa300          | Dilution Factor:  | 1.0000 |
| Recording Time:  | 4/26/2010 11:56 | Sample Weight:    | 1.0000 |
| Run Time (min):  | 10.50           | Sample Amount:    | 1.0000 |



| No.           | Ret. Time<br>min | Peak Name | Height<br>µS | Area<br>µS*min | Rel. Area<br>% | Amount    | Type |
|---------------|------------------|-----------|--------------|----------------|----------------|-----------|------|
| 1             | 4.20             | Bromide   | 12.583       | 2.210          | 100.00         | 4.124103% | BMB  |
| <b>Total:</b> |                  |           | 12.583       | 2.210          | 100.00         | 4.124     |      |

Work Request # <sup>Original</sup> (K4575) K4587 K4590 K4591 K4607 K4635  
 Tier: I I I II A II I  
 Date Analyzed: 05/10/10  
 Analyst: Houprey  
 Analysis: NH<sub>3</sub> - 350.1 / SM 4500-NH<sub>3</sub>G 199842

**DATA QUALITY REPORT  
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 5/10/10 DQREPORT

D. I I IIA II D.  
 K4575, K4587, K4590, K4591, K4607, K4635

# BRAN+LUEBBE

Post-run report

199842

Name of Run : 100510C  
 Date of Report : 5/10/2010  
 Date of Run : 5/10/2010  
 Operator :  
 Comment :

Name of Analysis : Ammonia  
 System No. : 1  
 Type of System : AA3  
 Start/Stop time : 11:11 - 12:09

Channel :  
 Method :  
 Unit :  
 Calibr. Fit :  
 Corr. Coeff. :  
 Base :  
 Gain :  
 Sensitivity :  
 Sample Limit 1 :  
 Sample Limit 2 :

2 LCS ID#: B+LNH<sub>3</sub>/-34-J TV.=14.3  
 Method 2 Spike ID#: B+LNH<sub>3</sub>/-72-J TV.=2.00  
 mg/L Linear  
 CWMP, CCV ID#: B+LNH<sub>3</sub>/-55-T TV.=2.00  
 MBMS=2.00

| Pk | Cup | Sample Id           | Value    |
|----|-----|---------------------|----------|
| 0  | 0   | B Baseline          | -0.0122  |
| 1  | 1   | P Primer            | 5.0010   |
| 2  | 1   | D Drift             | 5.0038   |
| 3  | 1   | C 5.00              | 5.0091   |
| 4  | 2   | C 2.00              | 1.9771   |
| 5  | 3   | C 0.50              | 0.4987   |
| 6  | 4   | C 0.05              | 0.0470   |
| 7  | 5   | C 0                 | 0.0181   |
| 8  | 0   | B Baseline          | -0.0122  |
| 9  | 1   | H1 High             | 4.9788   |
| 10 | 0   | L1 Low              | -0.0070  |
| 11 | 0   | L1 Low              | -0.0070  |
| 12 | 5   | QC2 CCB1            | 0.0005   |
| 13 | 2   | QC1 CCV1            | 1.9705   |
| 14 | 10  | QC3 LCS1*10         | 1.4148   |
| 15 | 11  | S MB MS             | 2.0361   |
| 16 | 0   | N Null              | -0.0086N |
| 17 | 5   | QC2 MB1             | 0.0020   |
| 18 | 34  | S k1004575-001diss. | 0.0067   |
| 19 | 35  | S k1004575-002diss. | 0.4366   |
| 20 | 36  | S k1004575-003diss. | 0.4419   |
| 21 | 37  | S k1004575-004diss. | -0.0111  |
| 22 | 38  | S k1004587-001      | -0.0020  |
| 23 | 0   | B Baseline          | -0.0122  |
| 24 | 5   | QC2 CCB2            | 0.0094   |
| 25 | 2   | QC1 CCV2            | 1.9645   |
| 26 | 39  | S k1004587-002      | 0.0044   |

<0.020  
 1.97 99%  
 14.1 99%  
 2.04 102%  
 <0.020  
 <0.020  
 0.437  
 0.442  
 <0.020  
 <0.050  
 <0.020  
 1.96 98%  
 <0.050

5/10/10

05/10/10  
 Ferguson

|    |    |     |                     |         |        |                        |
|----|----|-----|---------------------|---------|--------|------------------------|
| 27 | 40 | S   | k1004590-001diss.   | 0.2440  | 0.244  |                        |
| 28 | 41 | S   | k1004591-001        | 0.2145  | 0.215  |                        |
| 29 | 42 | S   | k1004607-001        | 1.6869  | 1.69   |                        |
| 30 | 43 | S   | k1004635-001diss.   | -0.0004 | <0.020 | $\bar{x} = ND$ RPD = - |
| 31 | 44 | S   | k1004635-001ddiss.  | -0.0002 | <0.020 |                        |
| 32 | 45 | S   | k1004635-001msdiss. | 2.0665  | 2.07   | 104%                   |
| 33 | 46 | S   | k1004635-001msddiss | 2.1433  | 2.14   | 107%                   |
| 34 | 47 | S   | k1004635-002 diss.  | 0.0177  | <0.020 |                        |
| 35 | 0  | B   | BASELINE            | -0.0122 |        |                        |
| 36 | 5  | QC2 | CCB-3               | -0.0009 | <0.020 |                        |
| 37 | 2  | QC1 | CCV-3               | 1.9652  | 1.97   | 99%                    |
| 38 | 48 | S   | k1004635-003diss.   | 0.0212  | 0.0212 |                        |
| 39 | 0  | B   | Baseline            | -0.0122 |        |                        |
| 40 | 5  | QC2 | CCB4                | -0.0011 | <0.020 |                        |
| 41 | 2  | QC1 | CCV4                | 1.9679  | 1.97   | 99%                    |
| 42 | 1  | D   | Drift               | 5.0038  |        |                        |
| 43 | 0  | B   | Baseline            | -0.0122 |        |                        |
| 44 | 0  | B   | FinalBase           | -0.0122 |        |                        |

QC Limits

| Channel | :      | 2 |
|---------|--------|---|
| QC 1    | Unused |   |
| QC 2    | Unused |   |
| QC 3    | Unused |   |
| QC 4    | Unused |   |
| QC 5    | Unused |   |
| QC 6    | Unused |   |
| QC 7    | Unused |   |
| QC 8    | Unused |   |
| QC 9    | Unused |   |
| QC10    | Unused |   |

CORRECTIONS

|            |   |     |
|------------|---|-----|
| Channel    | : | 2   |
| Baseline   | : | Yes |
| Drift      | : | Yes |
| Carry over | : | Yes |
| %:         |   | 0.3 |

- \* ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

*5/10/10*  
*05/10/10*  
*Hougeny*

BRAN+LUEBBE AACE 6.02  
\*\* <END OF REPORT> \*\*

Post-run Report

*SM*  
5/10/10

05/10/10  
*Ferguson*

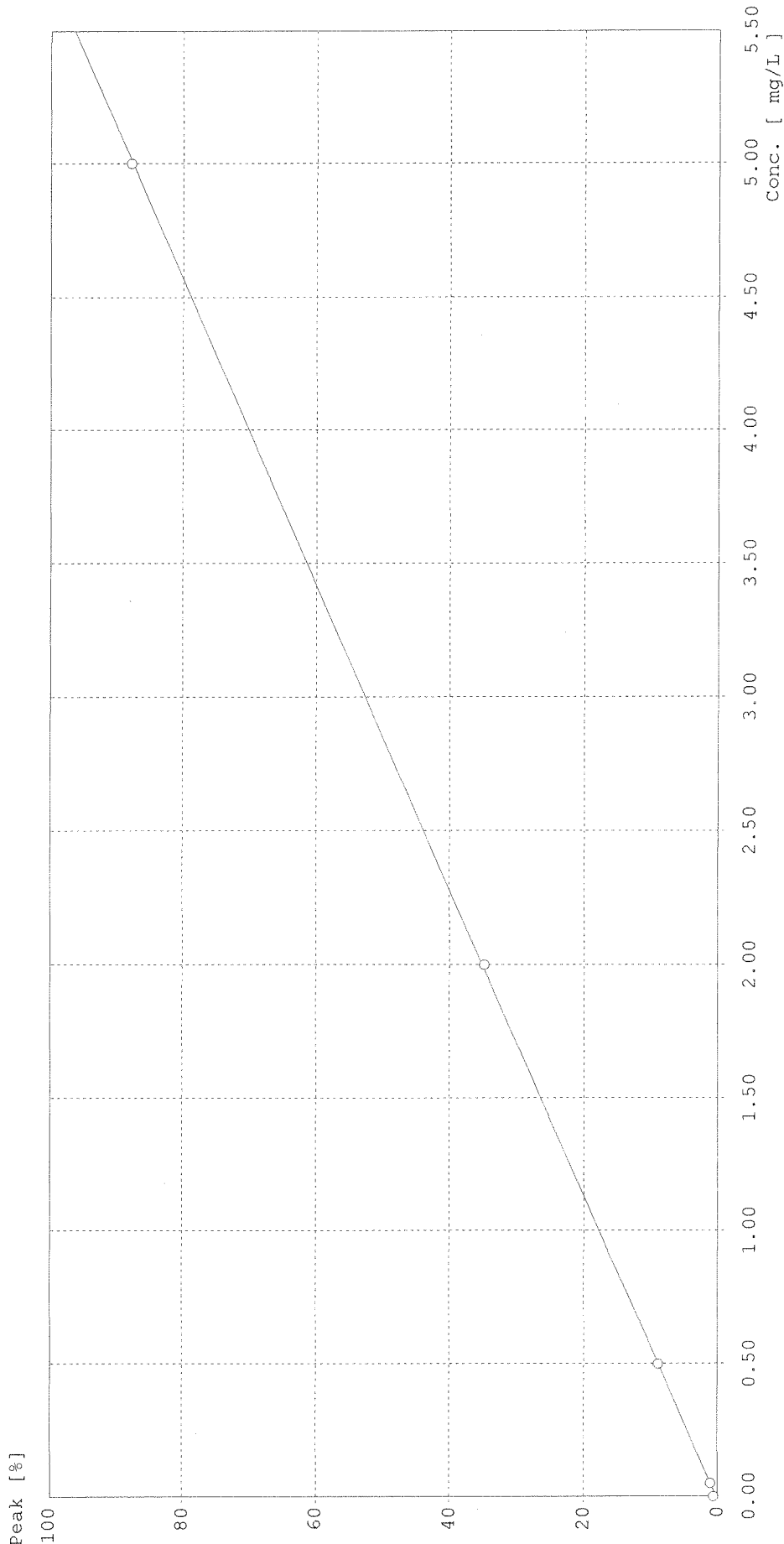
# BRAN+LUEBBE

## Calibration Curve

Name of run : 100510C.run  
Comment :

Name of analysis : Ammonia

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.9480E-001      b=8.7276E-005  
Corr. coeff. : 1.0000



*05/10/10*  
*Fluorimetry*  
*5/10/10*

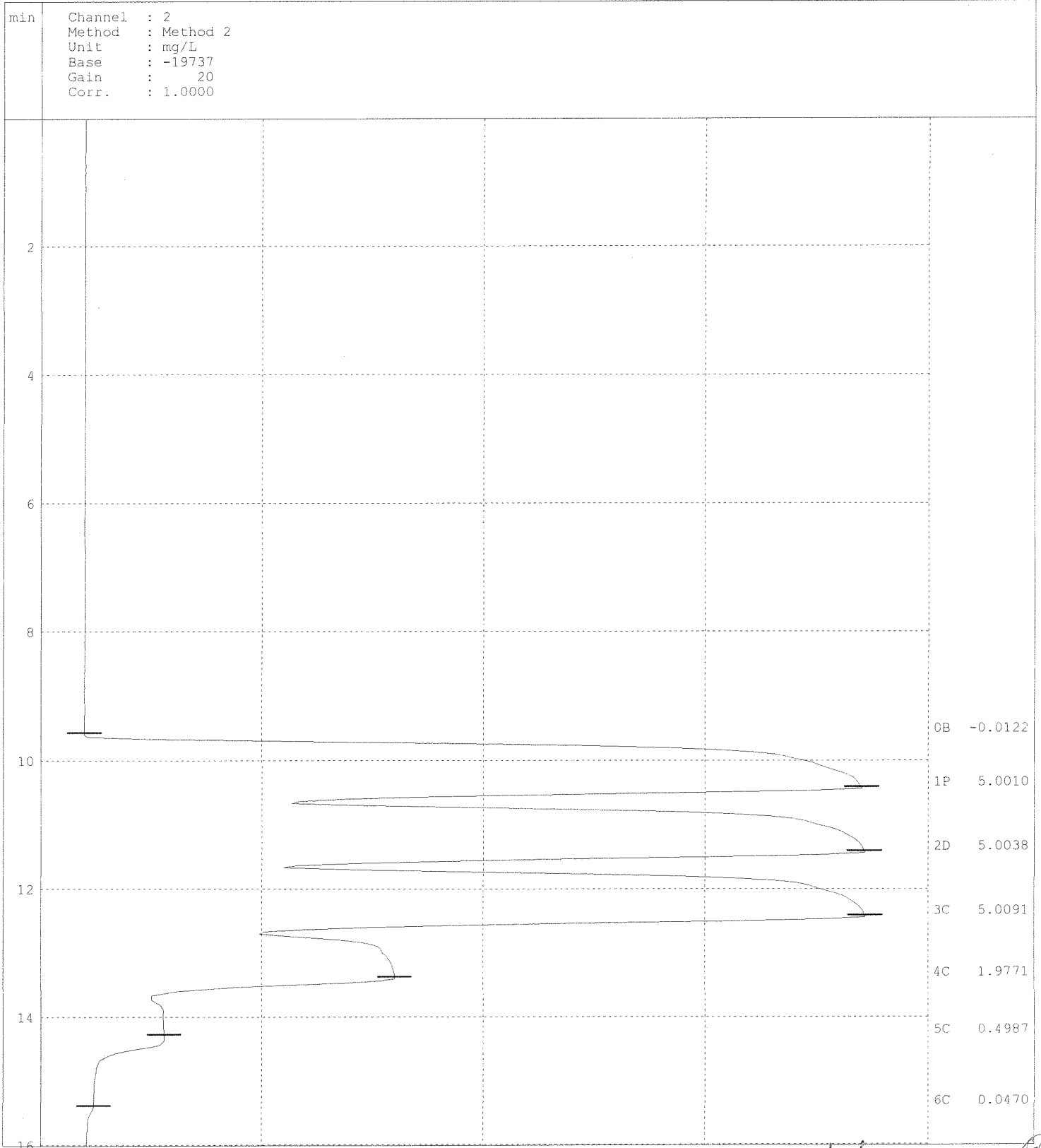


# BRAN+LUEBBE

Post-run chart

Name of run :100510C.RUN  
Comment :

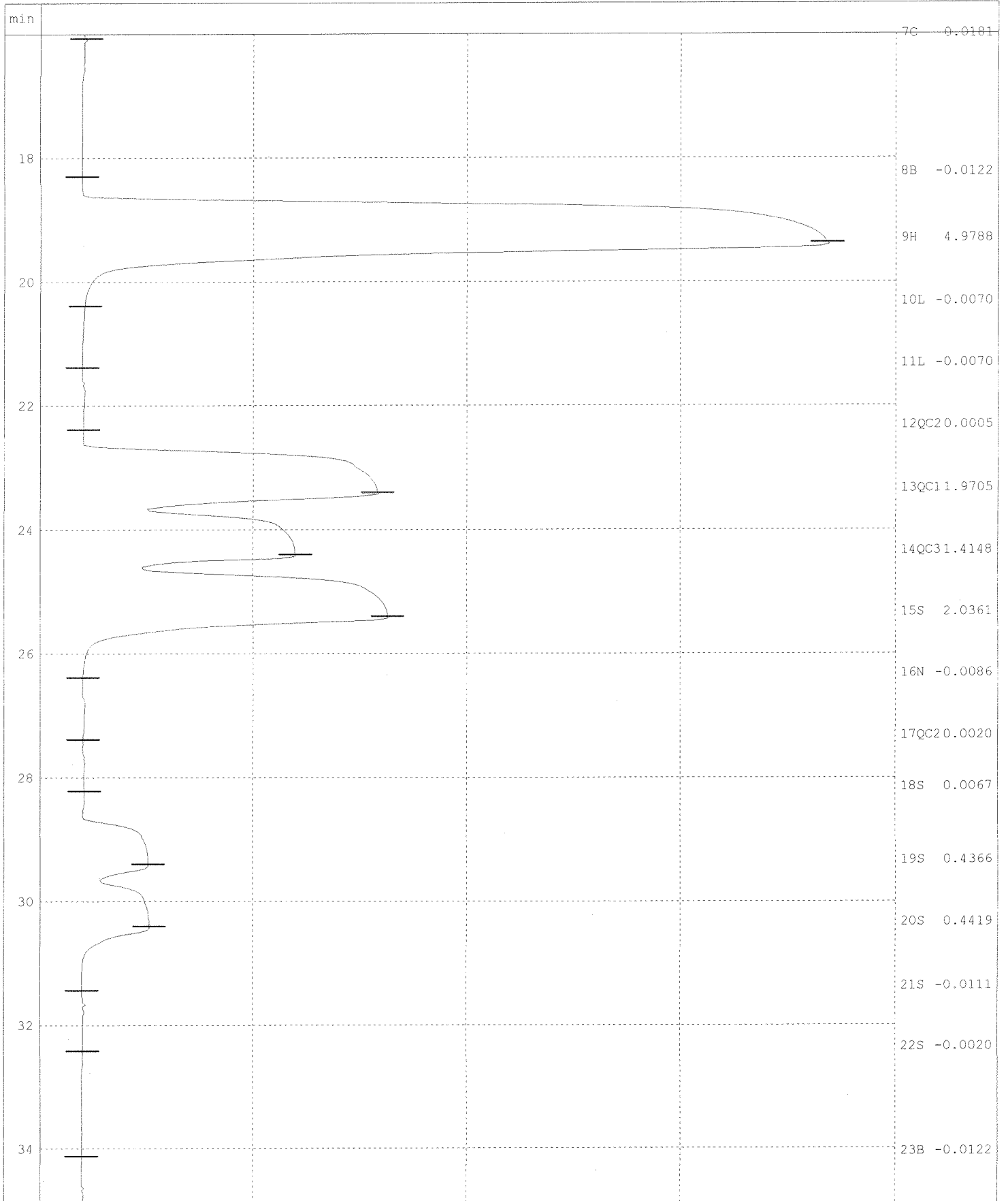
Name of analysis :Ammonia



05/10/10  
Ammonia  
JPA  
5/10/10

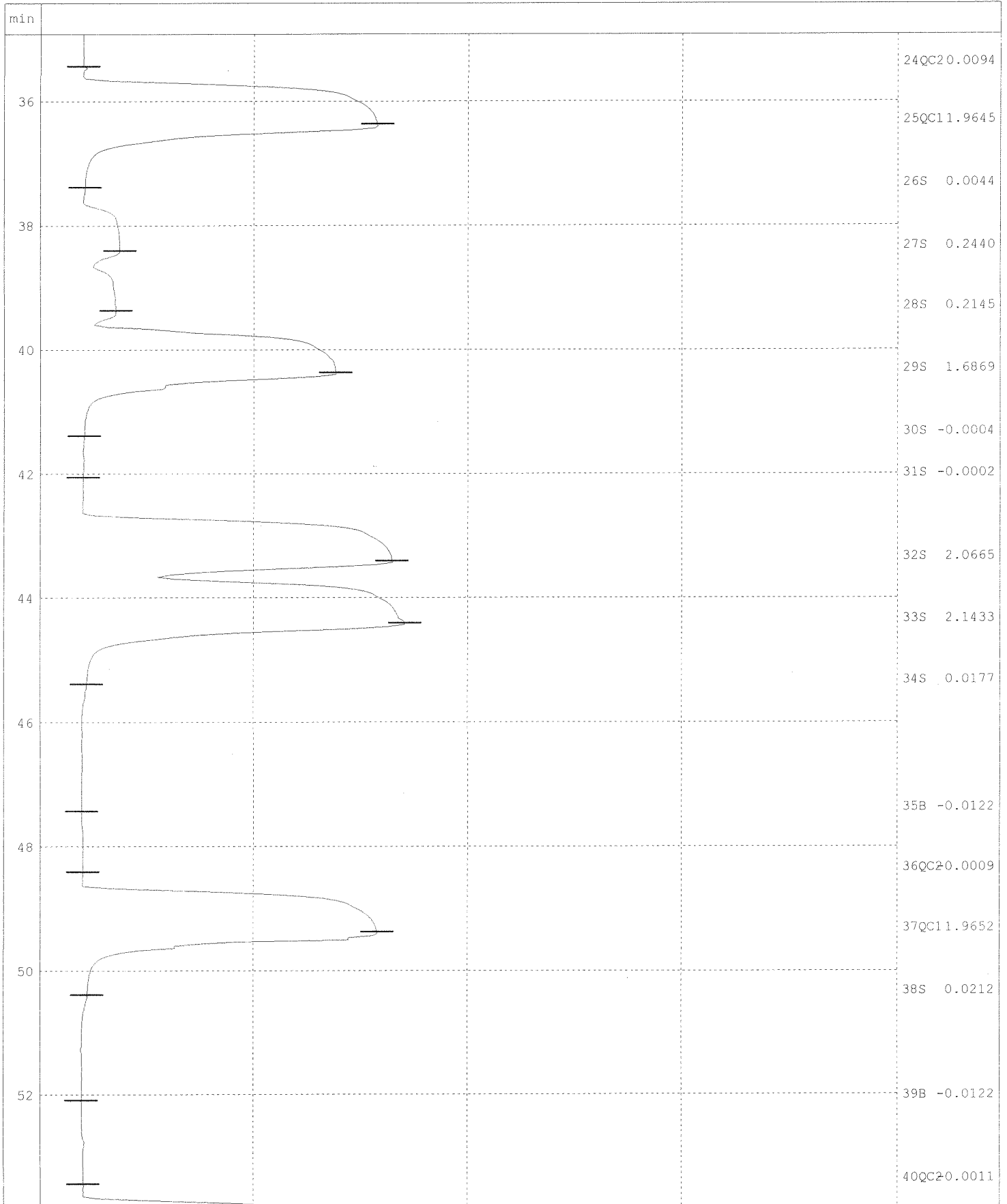
Name of run :100510C.RUN  
Comment :

Name of analysis :Ammonia



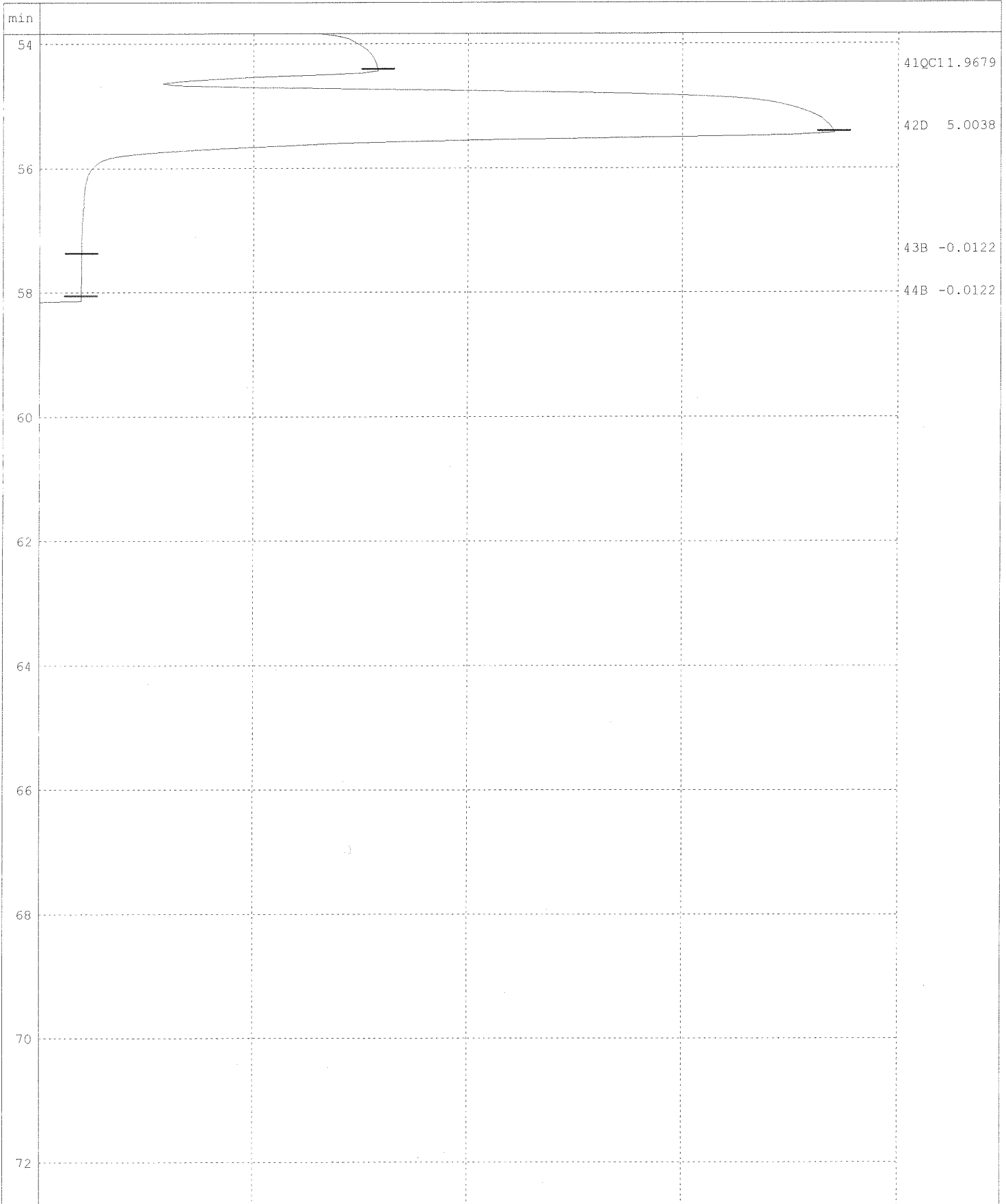
Name of run :100510C.RUN  
Comment :

Name of analysis :Ammonia



Name of run :100510C.RUN  
Comment :

Name of analysis :Ammonia



Work Request # <sup>Original</sup> (R4575)

Tier:   D  

Date Analyzed: 05/07/10

Analyst: Howe

Analysis: NO<sub>2</sub> - 353.2

199723

### DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

**COMMENTS:**

Final Approved by: [Signature] Date: 5/10/10 DQREPORT

V  
K4575

# BRAN+LUEBBE

Post-run report

Name of Run : 100507D  
Date of Report : 5/7/2010  
Date of Run : 5/7/2010  
Operator :  
Comment :

Name of Analysis : Nitrite.ANL  
System No. : 1  
Type of System : AA3  
Start/Stop time : 16:02 - 16:45

Channel : 2  
Method : Method 2  
Unit :  
Calibr. Fit : Linear  
Corr. Coeff. : 1.0000  
Base : -20595  
Gain : 5  
Sensitivity : 1.5908  
Sample Limit 1 :  
Sample Limit 2 :

LCS ID# : AN/11-27-R T.V. = 4.00  
(0.4ml x 100ppm / 10ml = 4.00)  
Spike ID# : B+LNO<sub>3</sub>/-94-T T.V. = 2.00  
Curve, CCV ID# : B+LNO<sub>3</sub>/-80-Q T.V. = 2.00

| Pk | Cup | Sample Id         | Value   |
|----|-----|-------------------|---------|
| 0  | 0   | B Baseline        | 0.0130  |
| 1  | 1   | P Primer          | 4.9988  |
| 2  | 1   | D Drift           | 5.0081  |
| 3  | 1   | C 5.00            | 5.0124  |
| 4  | 2   | C 2.00            | 1.9700  |
| 5  | 3   | C 0.50            | 0.4918  |
| 6  | 4   | C 0.05            | 0.0604  |
| 7  | 5   | C 0               | 0.0154  |
| 8  | 1   | H1 High           | 5.0052  |
| 9  | 0   | L1 Low            | 0.0238  |
| 10 | 0   | L1 Low            | 0.0148  |
| 11 | 5   | QC2 CCBI          | 0.0120  |
| 12 | 2   | QC1 CCV1          | 1.9466  |
| 13 | 10  | QC3 LCS1          | 3.9776  |
| 14 | 0   | N Null            | 0.0225N |
| 15 | 5   | QC2 MB1           | 0.0162  |
| 16 | 11  | S k1004575-001    | 0.0144  |
| 17 | 12  | S k1004575-002    | 0.0691  |
| 18 | 13  | S k1004575-002d   | 0.0696  |
| 19 | 14  | S k1004575-002ms  | 2.0975  |
| 20 | 15  | S k1004575-002msd | 2.0709  |
| 21 | 16  | S k1004575-003    | 0.0736  |
| 22 | 0   | B Baseline        | 0.0109  |
| 23 | 5   | QC2 CCB2          | 0.0119  |
| 24 | 2   | QC1 CCV2          | 1.9600  |
| 25 | 17  | S k1004575-004    | 0.0175  |
| 26 | 0   | B Baseline        | 0.0116  |

<0.050  
1.95 98%  
3.98 100%

<0.050  
0.069  $\bar{x}$  = 0.070 RPD = 1%  
0.070

2.10 102%  
2.07 100%

<0.050  
1.96 98%

<0.050

5/10/10

05/07/10



BRAN+LUEBBE AACE 6.02

Post-run Report

|    |   |     |           |        |          |
|----|---|-----|-----------|--------|----------|
| 27 | 5 | QC2 | CCB3      | 0.0121 | <0.050   |
| 28 | 2 | QC1 | CCV3      | 1.9557 | 1.96 98% |
| 29 | 1 | D   | Drift     | 5.0401 |          |
| 30 | 0 | B   | Baseline  | 0.0096 |          |
| 31 | 0 | B   | FinalBase | 0.0097 |          |

QC Limits

|         |        |   |
|---------|--------|---|
| Channel | :      | 2 |
| QC 1    | Unused |   |
| QC 2    | Unused |   |
| QC 3    | Unused |   |
| QC 4    | Unused |   |
| QC 5    | Unused |   |
| QC 6    | Unused |   |
| QC 7    | Unused |   |
| QC 8    | Unused |   |
| QC 9    | Unused |   |
| QC10    | Unused |   |

CORRECTIONS

|            |   |     |
|------------|---|-----|
| Channel    | : | 2   |
| Baseline   | : | No  |
| Drift      | : | No  |
| Carry over | : | No  |
| %:         |   | 0.0 |

- \* ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

\*\* <END OF REPORT> \*\*

*SAH*  
*5/10/10*  
  
*05/07/10*  
*Houymer*

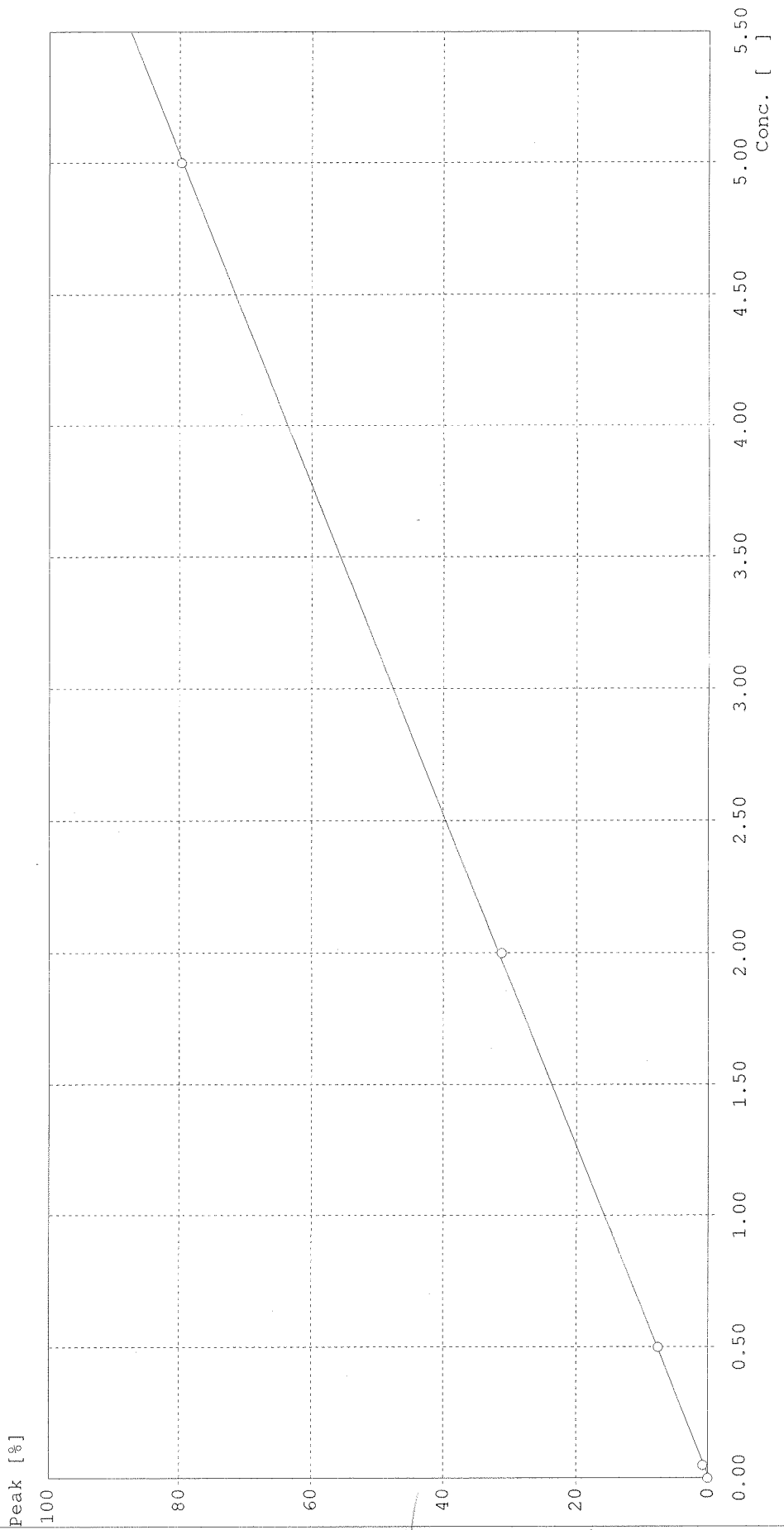
# BRAN+LUEBBE

Calibration Curve

Name of analysis : Nitrite.ANL

Name of run : 100507D.run  
Comment :

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.8000E-001      b=9.5660E-005  
Corr. coeff. : 1.0000



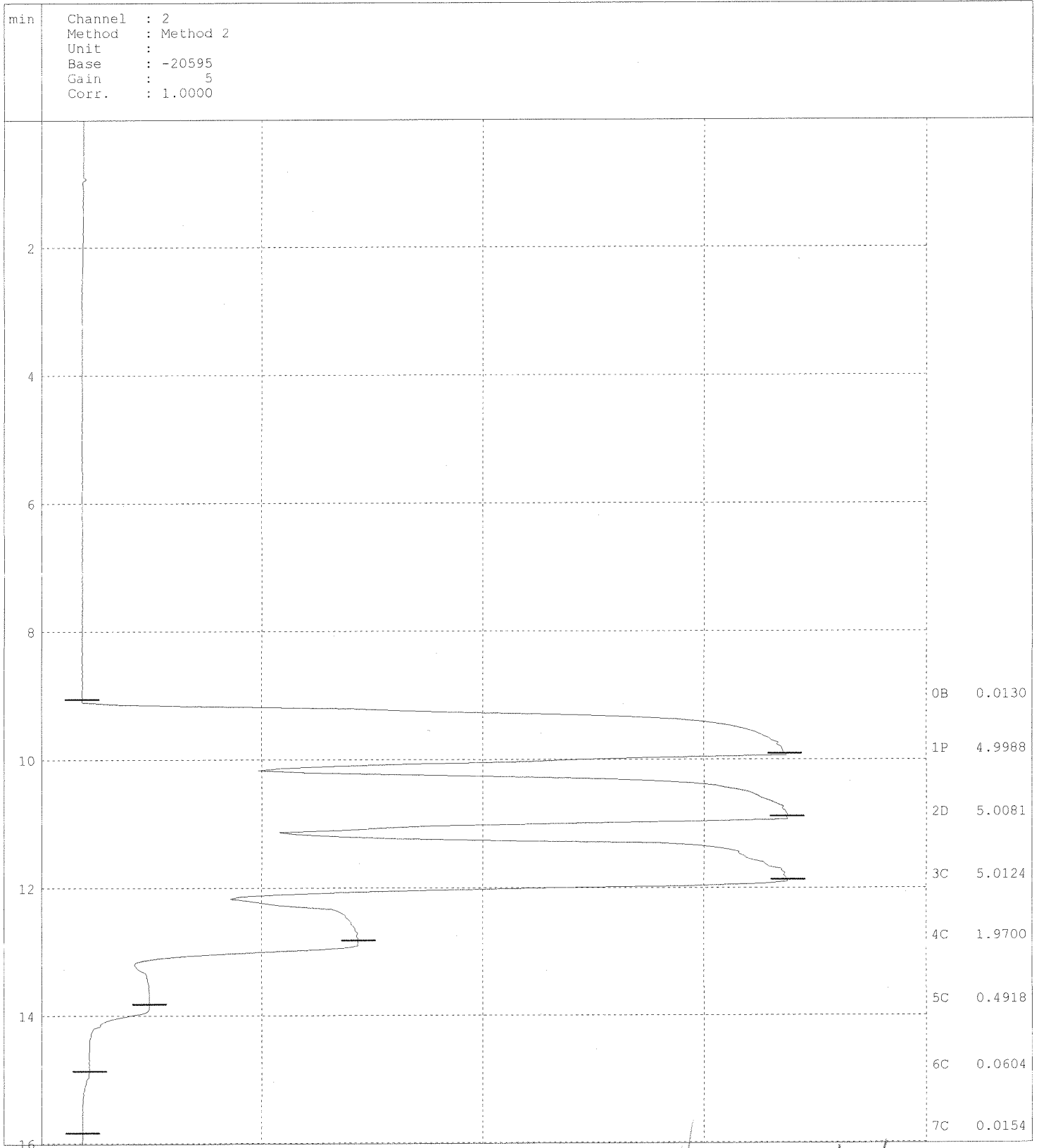
*3/10/10*      *05/07/10*  
*Fungu*

# BRAN+LUEBBE

Post-run chart

Name of run :100507D.RUN  
Comment :

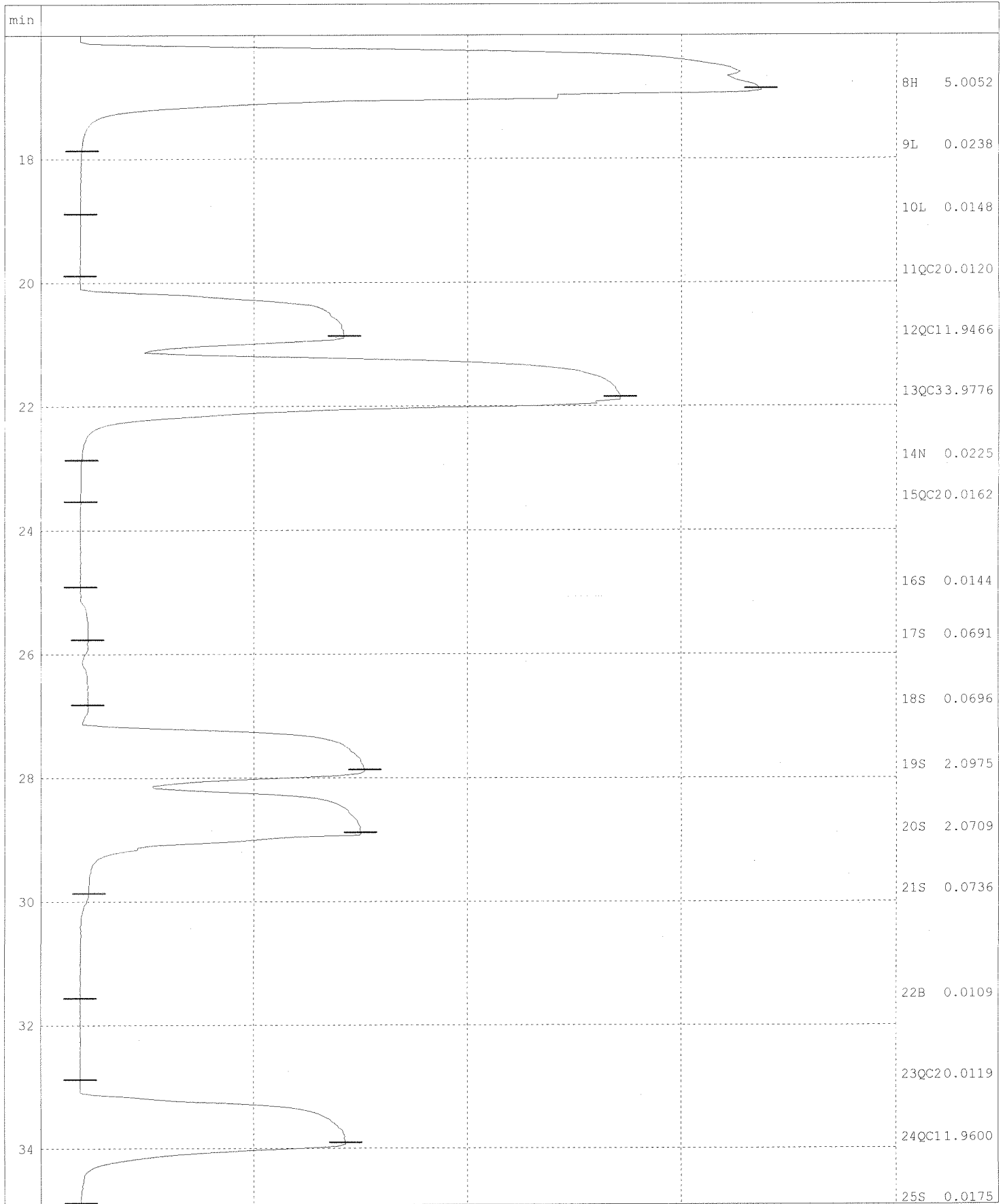
Name of analysis :Nitrite.ANL



*5/10/10*  
*05/07/10*  
*Fluor*

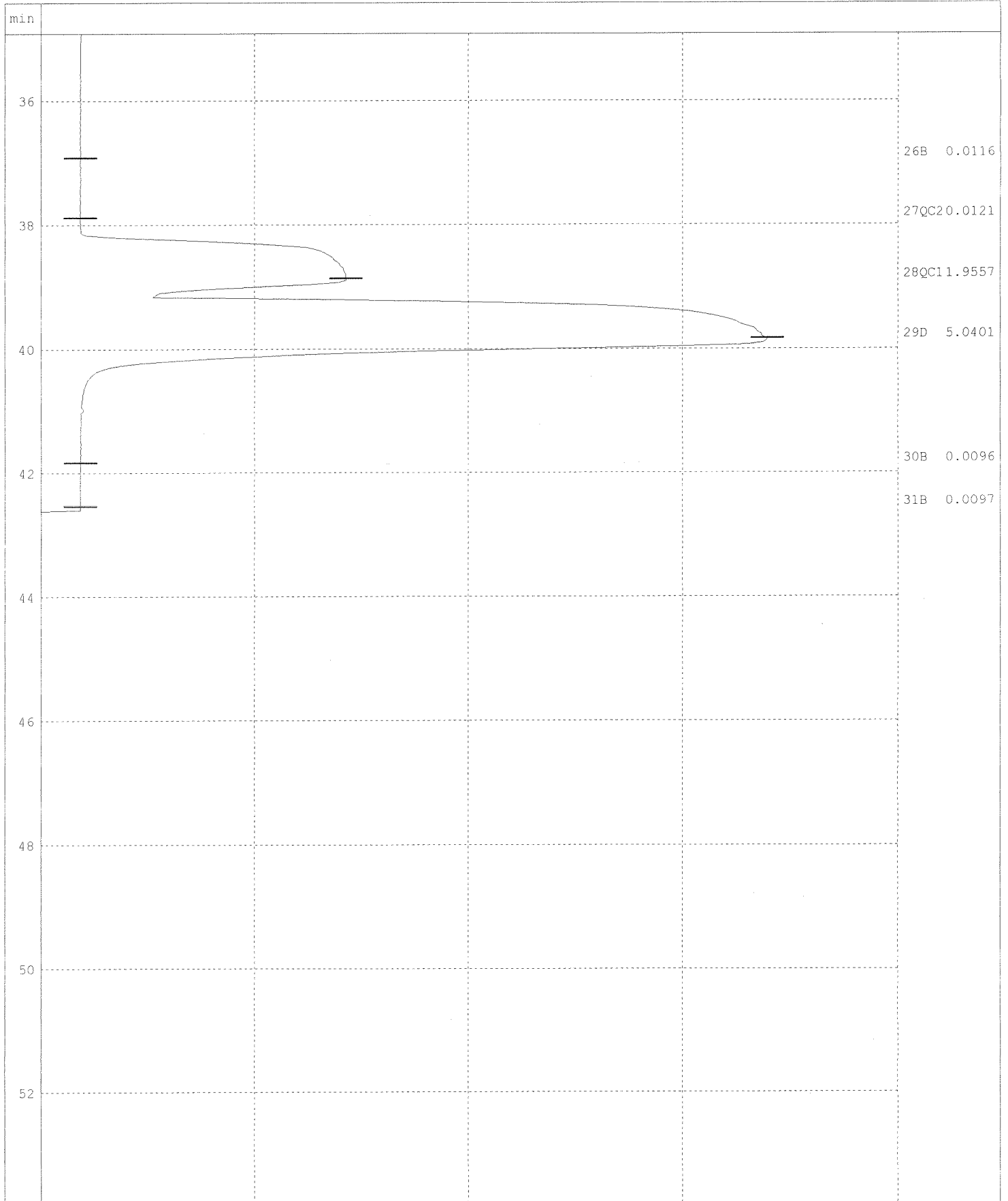
Name of run :100507D.RUN  
Comment :

Name of analysis :Nitrite.ANL



Name of run :100507D.RUN  
Comment :

Name of analysis :Nitrite.ANL



Work Request # <sup>Original</sup> (K4422) K4423 K4424 K4425 K4427 K4455 K4587 K4590 K4666 K4575 K4635  
 Tier: II II II II II III IV I III III III  
 Date Analyzed: 05/11/10  
 Analyst: Haugom  
 Analysis: NO<sub>2</sub>/NO<sub>3</sub> - 353.2

200087

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS: 2. K4666 - need past hold time

Final Approved by: [Signature] Date: 5/12/10 DQREPORT



$\bar{II}$ .  $\bar{II}$ .  $\bar{II}$ .  $\bar{II}$ .  $\bar{II}$ .  $\bar{III}$ .  $\bar{V}$   $\bar{I}$   $\bar{III}$   $\bar{III}$   $\bar{III}$   
 K4422, K4423, K4424, K4425, K4427, K4455, K4587, K4590, K4666, K4575, K4635  
 ↓ ↓  
 diss. rec'd post cold time

BRAN+LUEBBE AACE 6.02

Post-run Report

# BRAN+LUEBBE

Post-run report

Name of Run : 100511C Name of Analysis : NO2+NO3.ANL  
 Date of Report : 5/11/2010 System No. : 1  
 Date of Run : 5/11/2010 Type of System : AA3  
 Operator : Start/Stop time : 13:11 - 14:42  
 Comment :

Channel : 2  
 Method : Method 2  
 Unit : mg/L  
 Calibr. Fit : Linear  
 Corr. Coeff. : 0.9999  
 Base : -21372  
 Gain : 6  
 Sensitivity : 1.5173  
 Sample Limit 1 :  
 Sample Limit 2 :

LPS ID# : B+LNH<sub>2</sub>/-34-I T.V. = 14.8  
 Spike ID# : B+LNO<sub>2</sub>/-94-Y T.V. = 2.00  
 Curve, CV ID# : B+LNO<sub>2</sub>/-85-V T.V. = 2.00  
 ICV ID# : B+LNO<sub>2</sub>/-80-S T.V. = 2.00  
 MB MS = 2.00

| Pk | Cup | Sample Id         | Value   |
|----|-----|-------------------|---------|
| 0  | 0   | B Baseline        | 0.0081  |
| 1  | 1   | P primer          | 5.0036  |
| 2  | 1   | D Drift           | 4.9797  |
| 3  | 1   | C 5.00            | 5.0161  |
| 4  | 2   | C 2.00            | 1.9579  |
| 5  | 3   | C 0.50            | 0.5019  |
| 6  | 4   | C 0.05            | 0.0612  |
| 7  | 5   | C 0               | 0.0130  |
| 8  | 1   | H1 High           | 4.9965  |
| 9  | 0   | L1 Low            | 0.0269  |
| 10 | 0   | L1 Low            | 0.0513  |
| 11 | 9   | QC3 ICV           | 1.9433  |
| 12 | 5   | QC2 ICB           | 0.0179  |
| 13 | 5   | QC2 CCB1          | 0.0124  |
| 14 | 2   | QC1 CCV1          | 1.9298  |
| 15 | 10  | QC4 LCS1*10       | 1.4552  |
| 16 | 11  | S MB MS           | 1.9840  |
| 17 | 0   | N Null            | 0.0168N |
| 18 | 5   | QC2 MB1           | 0.0092  |
| 19 | 12  | S k1004422-001    | 0.1661  |
| 20 | 13  | S k1004422-001d   | 0.1666  |
| 21 | 14  | S k1004422-001ms  | 2.1539  |
| 22 | 15  | S k1004422-001msd | 2.1575  |
| 23 | 16  | S k1004422-002    | 0.1818  |
| 24 | 0   | B Baseline        | 0.0081  |
| 25 | 5   | QC2 CCB2          | 0.0104  |
| 26 | 2   | QC1 CCV2          | 1.9269  |

1.94 97%  
 0.0187  
 0.0127 97%  
 1.93 97%  
 14.6 99%  
 1.98 99%  
 0.0097  
 0.166  $\bar{x} = 0.167$  RPD < 1%  
 0.167  
 2.15 99%  
 2.16 100%  
 0.182  
 0.0107 97%  
 1.93 97%

5/11/10  
5/12/10

05/11/10  
Ferguson

|    |    |     |                   |         |        |                             |
|----|----|-----|-------------------|---------|--------|-----------------------------|
| 27 | 17 | S   | k1004422-003      | 0.1795  | 0.180  |                             |
| 28 | 18 | S   | k1004423-001      | 0.1516  | 0.152  |                             |
| 29 | 19 | S   | k1004423-002      | 0.1588  | 0.159  |                             |
| 30 | 20 | S   | k1004423-003      | 0.1520  | 0.152  |                             |
| 31 | 21 | S   | k1004424-001      | 0.2296  | 0.230  |                             |
| 32 | 22 | S   | k1004424-002      | 0.2278  | 0.228  |                             |
| 33 | 23 | S   | k1004424-003      | 0.2288  | 0.229  |                             |
| 34 | 24 | S   | k1004425-001      | 0.1435  | 0.144  |                             |
| 35 | 25 | S   | k1004425-002      | 0.1560  | 0.156  |                             |
| 36 | 0  | B   | Baseline          | 0.0081  |        |                             |
| 37 | 5  | QC2 | CCB3              | 0.0118  | 0.0127 |                             |
| 38 | 2  | QC1 | CCV3              | 1.9083  | 1.91   | 96%                         |
| 39 | 26 | S   | k1004425-003      | 0.1427  | 0.143  |                             |
| 40 | 27 | S   | k1004427-001      | 0.1502  | 0.150  |                             |
| 41 | 28 | S   | k1004427-002      | 0.1455  | 0.146  |                             |
| 42 | 29 | S   | k1004427-003      | 0.1579  | 0.158  |                             |
| 43 | 30 | S   | k1004455-001      | 0.0113  | 0.0117 | $\bar{x} = 0.0117$ APD < 1% |
| 44 | 31 | S   | k1004455-001d     | 0.0107  | 0.0117 |                             |
| 45 | 32 | S   | k1004455-001ms    | 2.0008  | 2.00   | 99%                         |
| 46 | 33 | S   | k1004455-001msd   | 2.0038  | 2.00   | 99%                         |
| 47 | 34 | S   | k1004455-002      | 0.0185  | 0.0197 |                             |
| 48 | 0  | B   | Baseline          | 0.0081  |        |                             |
| 49 | 5  | QC2 | CCB4              | 0.0121  | 0.0127 | 96%                         |
| 50 | 2  | QC1 | CCV4              | 1.9233  | 1.92   |                             |
| 51 | 10 | QC4 | LCS2*10           | 1.4390  | 14.4   | 97%                         |
| 52 | 10 | QC4 | LCS2dup*10        | 1.4427  | 14.4   | 97%                         |
| 53 | 0  | N   | Null              | 0.0159N |        |                             |
| 54 | 5  | QC2 | MB2               | 0.0135  | 0.0147 |                             |
| 55 | 35 | S   | k1004587-001      | 0.5898  | 0.590  |                             |
| 56 | 36 | S   | k1004587-002      | 0.0605  | 0.061  |                             |
| 57 | 37 | S   | k1004590-001diss. | 0.0329  | <0.050 |                             |
| 58 | 38 | S   | k1004666-001      | 2.2671  | 2.27   |                             |
| 59 | 39 | S   | k1004666-002      | 2.8851  | 2.89   |                             |
| 60 | 0  | B   | Baseline          | 0.0081  |        |                             |
| 61 | 5  | QC2 | CCB5              | 0.0130  | 0.0137 |                             |
| 62 | 2  | QC1 | CCV5              | 1.9268  | 1.93   | 97%                         |
| 63 | 40 | S   | k1004575-001      | 0.0449  | 0.0457 |                             |
| 64 | 41 | S   | k1004575-002+25   | 2.0673  | 51.7   |                             |
| 65 | 42 | S   | k1004575-003+25   | 2.0871  | 52.2   |                             |
| 66 | 43 | S   | k1004575-004      | 0.0303  | 0.0307 |                             |
| 67 | 44 | S   | k1004635-001*10   | 0.9934  | 9.93   |                             |
| 68 | 45 | S   | k1004635-002      | 0.0423  | 0.0427 |                             |
| 69 | 46 | S   | k1004635-003*5    | 1.3185  | 6.59   |                             |
| 70 | 0  | B   | Baseline          | 0.0081  |        |                             |
| 71 | 5  | QC2 | CCB6              | 0.0118  | 0.0127 |                             |
| 72 | 2  | QC1 | CCV6              | 1.9241  | 1.92   | 96%                         |
| 73 | 1  | D   | Drift             | 4.9797  |        |                             |
| 74 | 0  | B   | Baseline          | 0.0081  |        |                             |
| 75 | 0  | B   | FinalBase         | 0.0081  |        |                             |

SJL  
5/12/10

QC Limits

05/11/10  
Ferguson

|         |   |        |
|---------|---|--------|
| Channel | : | 2      |
| QC 1    | : | Unused |
| QC 2    | : | Unused |
| QC 3    | : | Unused |
| QC 4    | : | Unused |
| QC 5    | : | Unused |
| QC 6    | : | Unused |
| QC 7    | : | Unused |
| QC 8    | : | Unused |
| QC 9    | : | Unused |
| QC10    | : | Unused |

CORRECTIONS

|            |   |          |
|------------|---|----------|
| Channel    | : | 2        |
| Baseline   | : | Yes      |
| Drift      | : | Yes      |
| Carry over | : | No       |
| %:         |   | Negative |

- \* ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

\*\* <END OF REPORT> \*\*

*SAD*  
*5/12/10*

*05/11/10*  
*Haugen*

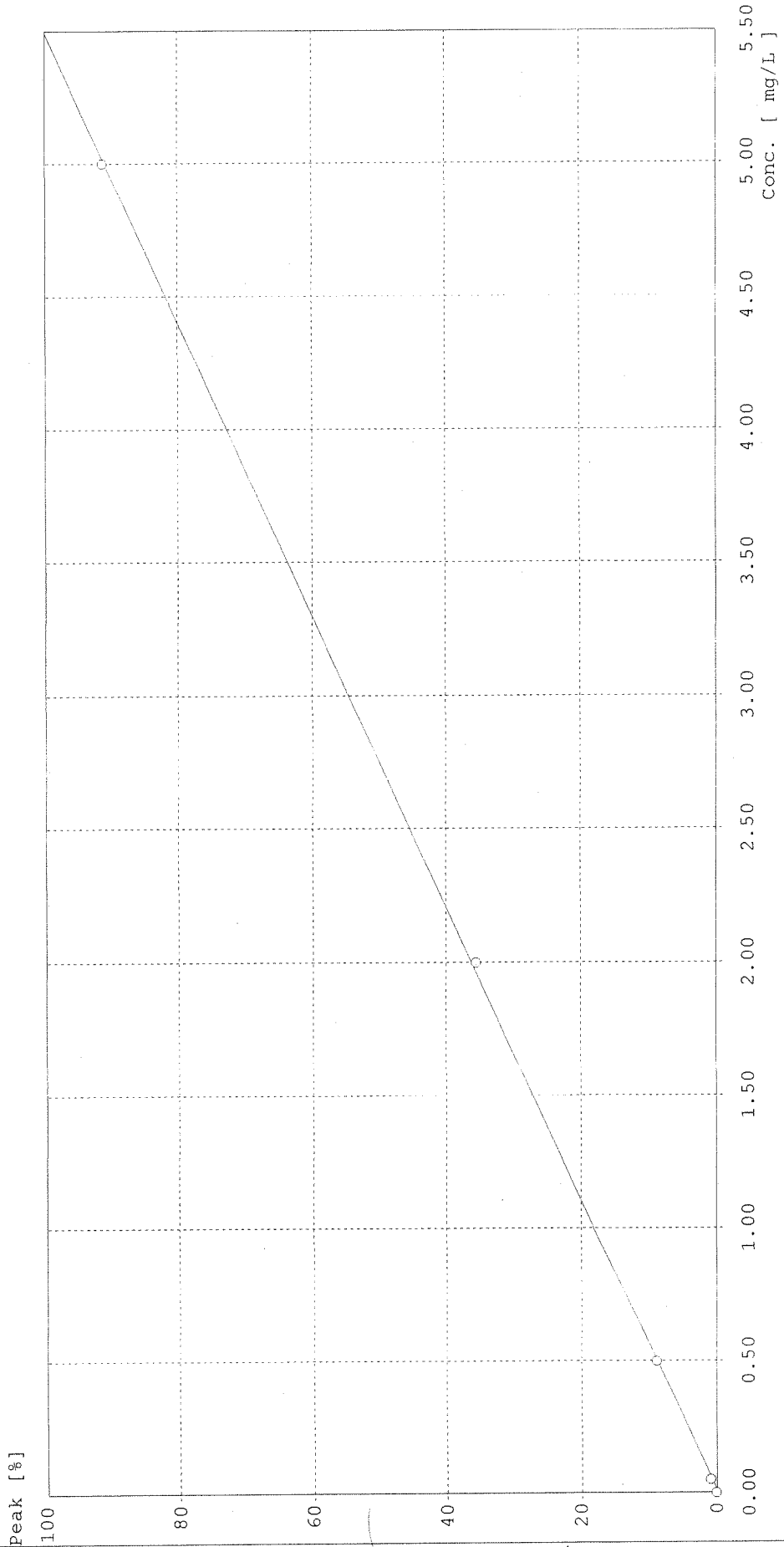
# BRAN+LUEBBE

## Calibration Curve

Name of run : 100511C.run  
Comment :

Name of analysis : NO2+NO3.ANL

Channel : 2  
Method : Method 2  
Curve fit : linear      a=-2.5321E-001      b=8.3719E-005  
Corr. coeff. : 0.9999



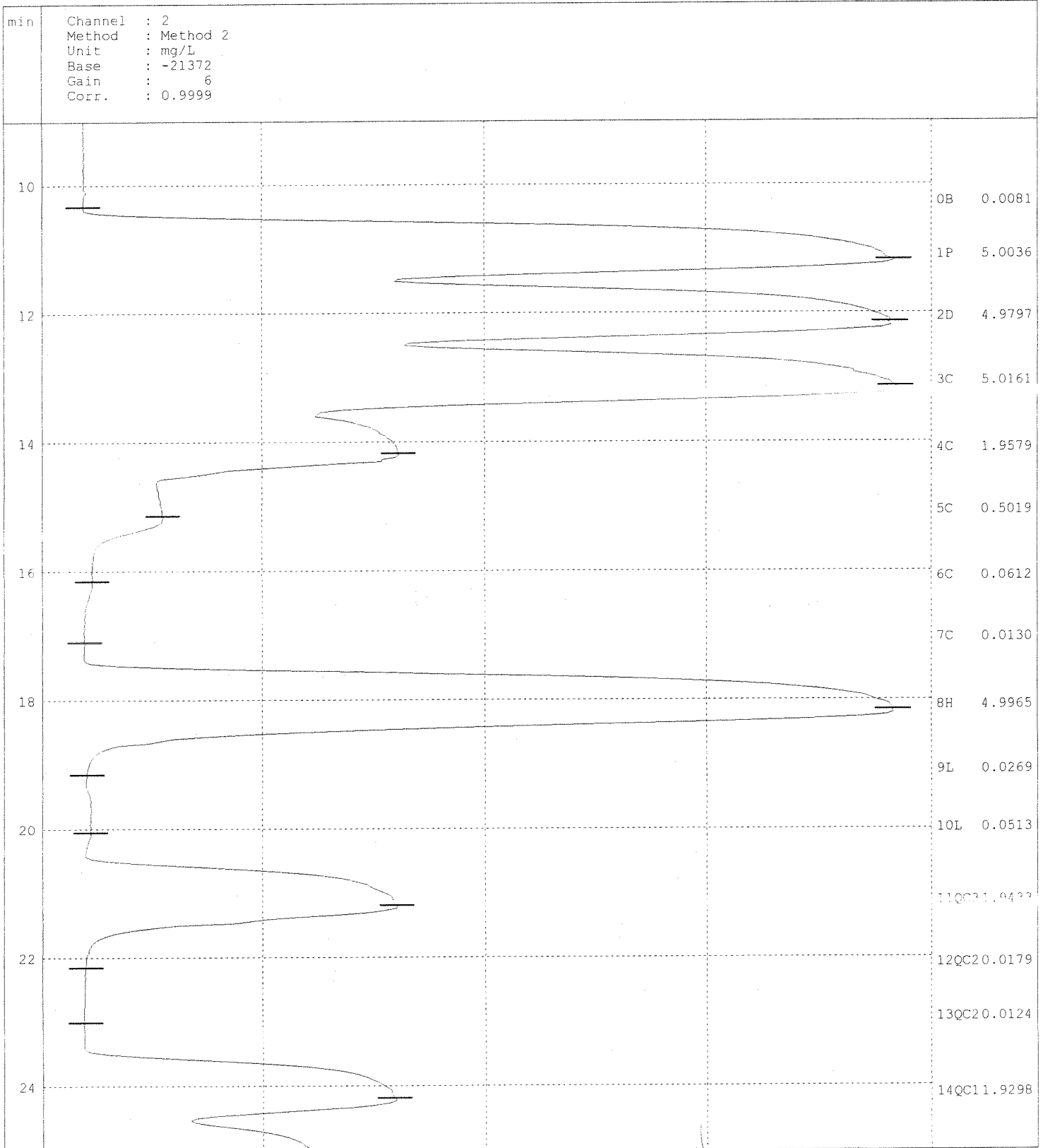
*5/12/10*  
*05/11/10*  
*Flouy*

# BRAN+LUEBBE

Post-run chart

Name of run :100511C.RUN  
Comment :

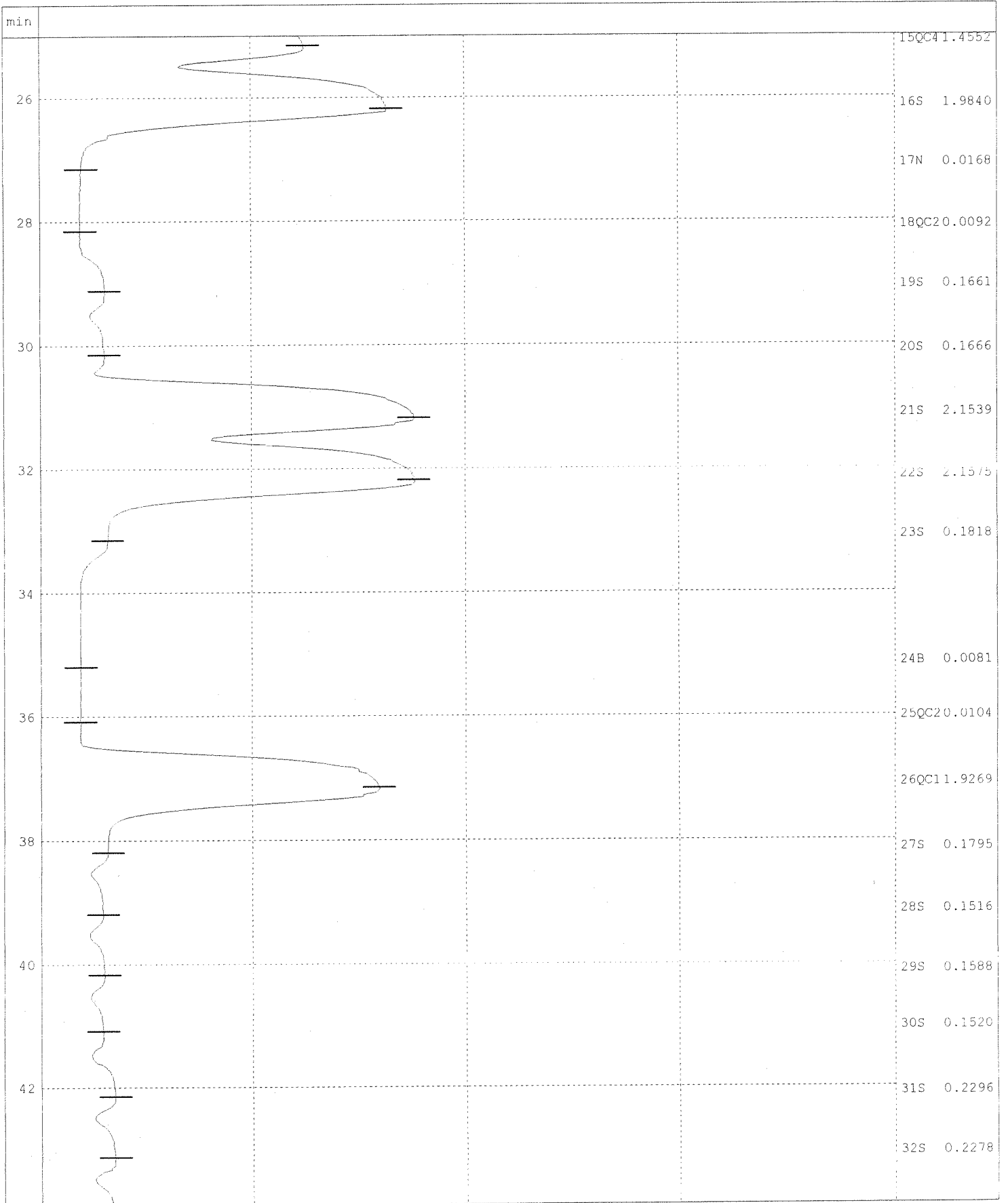
Name of analysis :NO2+NO3.ANL



*Sal*  
*5/12/10*  
*05/11/10*  
*Flouyann*

Name of run :100511C.RUN  
 Comment :

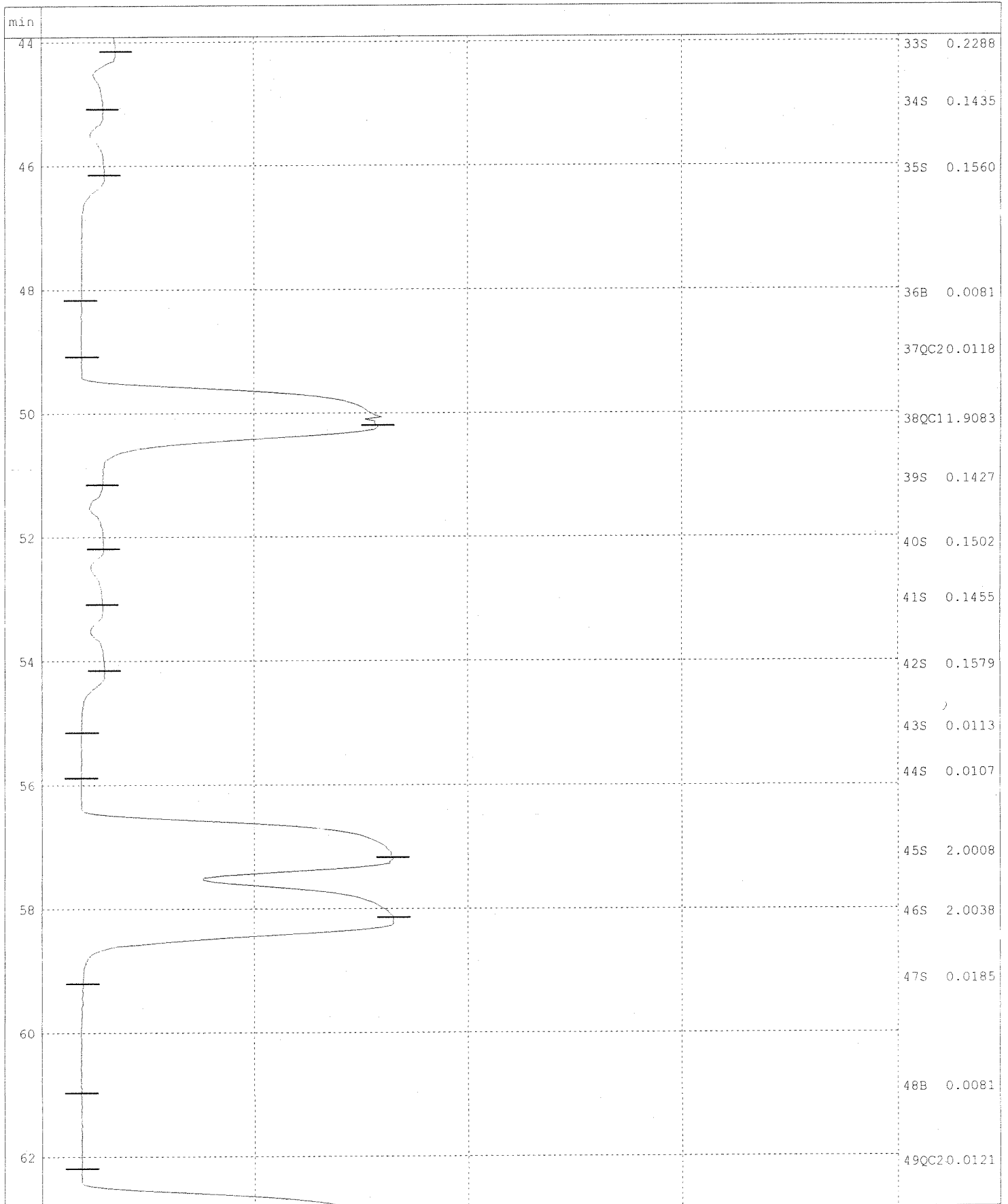
Name of analysis :NO2+NO3.ANL





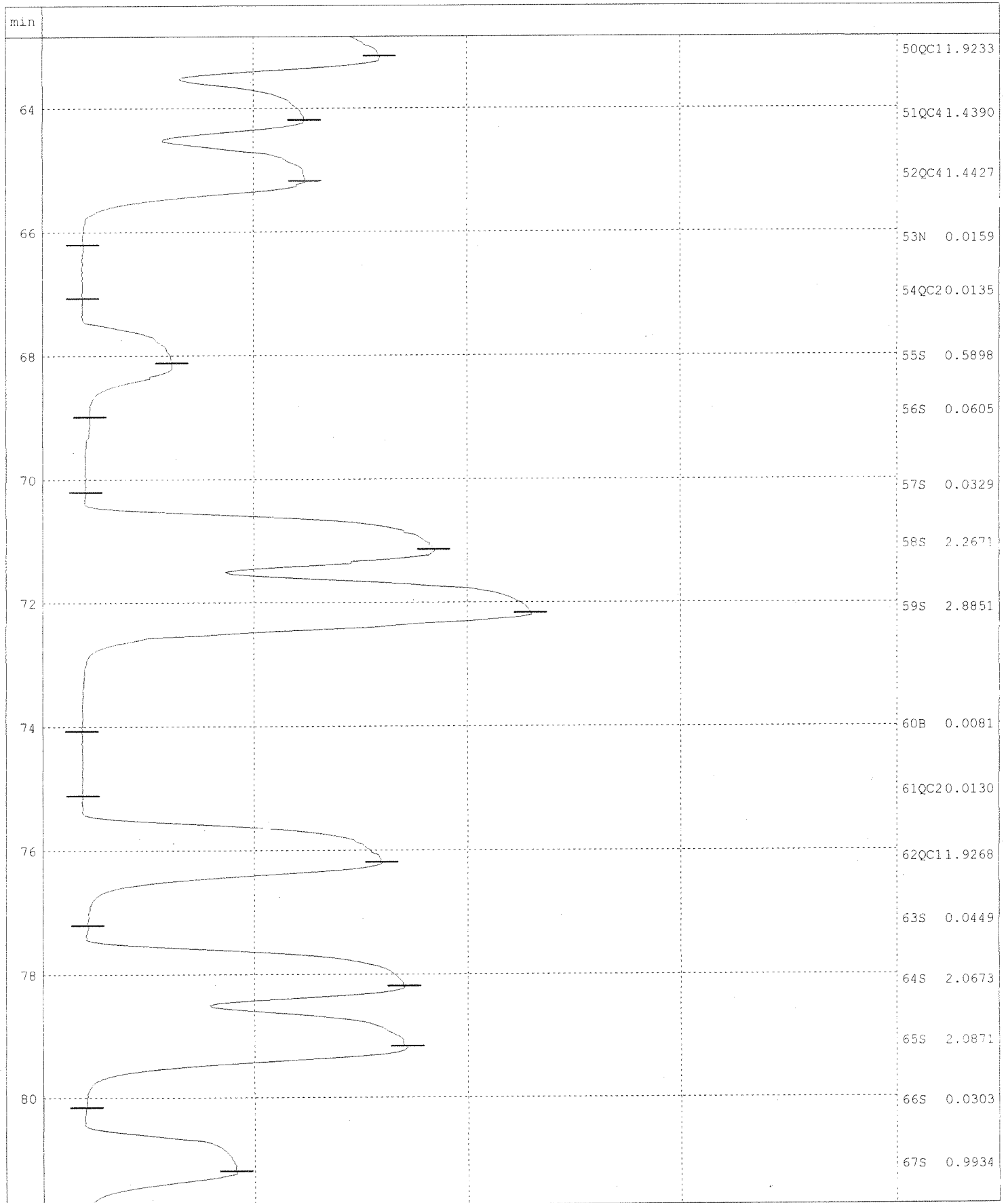
Name of run :100511C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



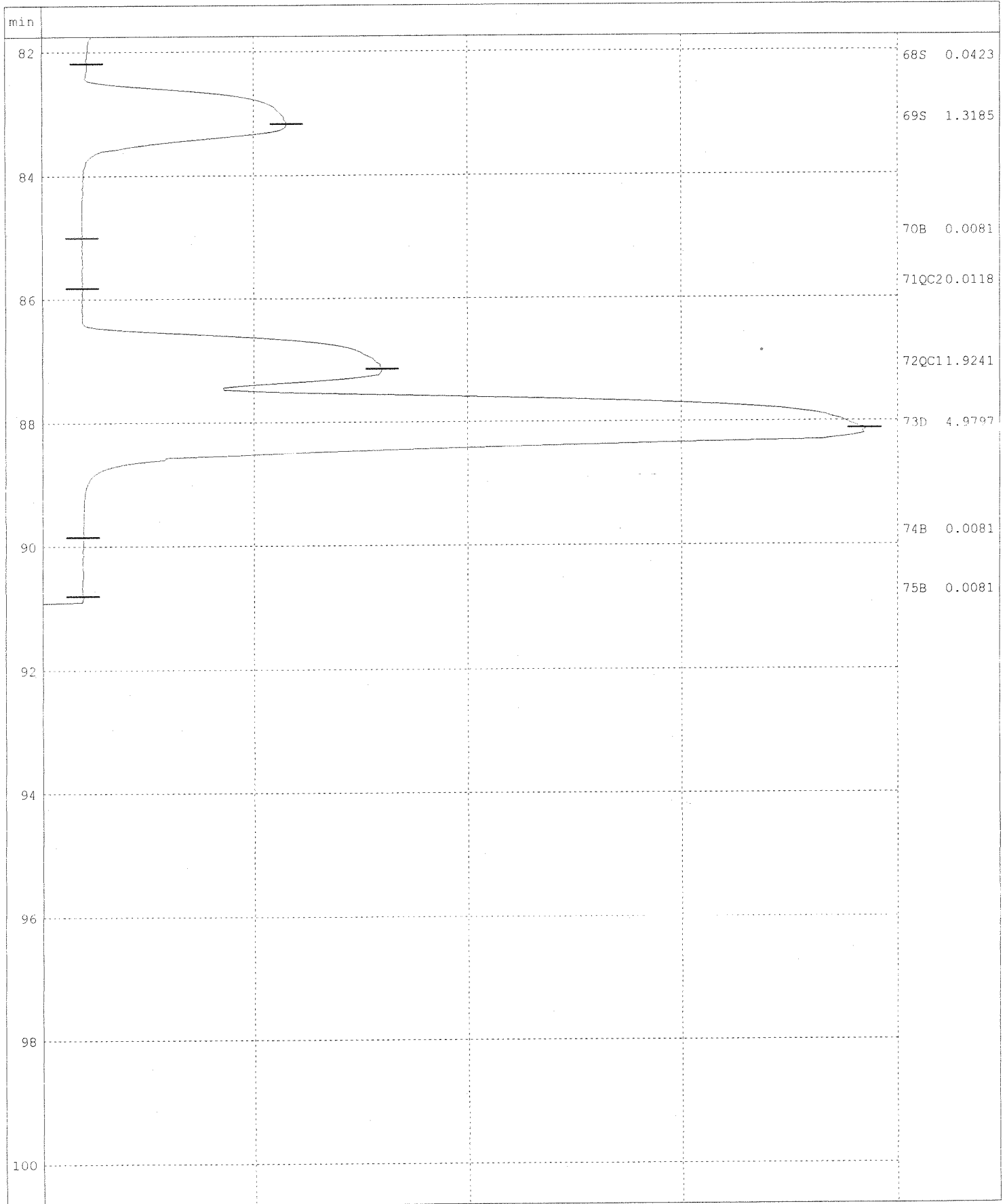
Name of run :100511C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL



Name of run :100511C.RUN  
Comment :

Name of analysis :NO2+NO3.ANL




Work Request # Original K4343, K4575, K4587, K4590  
 Tier: I III<sup>TE#</sup> 5/12/10 I I  
 Date Analyzed: 5/7/10  
 Analyst: J  
 Analysis: 365.3 ORhoA 200181

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria?  
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed?  
(e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

**COMMENTS:**

Final Approved by:  Date: 5/12/10 DQREPORT

# Analytical Results Summary

Instrument Name: K-UV-VIS-01

Analyst: SARWOOD

Analysis Lot: 200181

Method/Testcode: 365.3/O Phos T

| alb Code    | Target Analytes              | QC  | Parent Sample | Matrix | Raw Result | Sample Amt. | Final Result | Dil | MDL   | PQL   | % Rec | % RSD | Date Analyzed   | QC? Tier |
|-------------|------------------------------|-----|---------------|--------|------------|-------------|--------------|-----|-------|-------|-------|-------|-----------------|----------|
| 1004343-016 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.53 mg/L  | 50 mL       | 0.526 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |
| 1004575-001 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.05 mg/L  | 50 mL       | 0.048 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004575-002 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.03 mg/L  | 50 mL       | 0.027 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004575-003 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.02 mg/L  | 50 mL       | 0.021 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004575-004 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.00 mg/L  | 50 mL       | 0.010 mg/L   | U 1 | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004587-001 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.07 mg/L  | 50 mL       | 0.072 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004587-002 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.06 mg/L  | 50 mL       | 0.064 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N V      |
| 1004590-001 | Orthophosphate as Phosphorus | N/A |               | Water  | 0.53 mg/L  | 50 mL       | 0.527 mg/L   | 1   | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-01 | Orthophosphate as Phosphorus | CCB |               | Water  | 0.01 mg/L  | 50 mL       | 0.005 mg/L   | J 1 | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-02 | Orthophosphate as Phosphorus | CCB |               | Water  | 0.00 mg/L  | 50 mL       | 0.010 mg/L   | U 1 | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-03 | Orthophosphate as Phosphorus | CCB |               | Water  | 0.00 mg/L  | 50 mL       | 0.010 mg/L   | U 1 | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-04 | Orthophosphate as Phosphorus | CCV |               | Water  | 0.46 mg/L  | 0.5 mL      | 46.4 mg/L    | 1   | 0.4   | 1.0   |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-05 | Orthophosphate as Phosphorus | CCV |               | Water  | 0.48 mg/L  | 0.5 mL      | 47.6 mg/L    | 1   | 0.4   | 1.0   |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-06 | Orthophosphate as Phosphorus | CCV |               | Water  | 0.48 mg/L  | 0.5 mL      | 47.9 mg/L    | 1   | 0.4   | 1.0   |       |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-07 | Orthophosphate as Phosphorus | MS  | K1004575-004  | Water  | 0.19 mg/L  | 50 mL       | 0.189 mg/L   | 1   | 0.004 | 0.010 | 95    |       | 5/7/10 04:00:00 | N V      |
| Q1004219-08 | Orthophosphate as Phosphorus | DMS | K1004575-004  | Water  | 0.38 mg/L  | 50 mL       | 0.385 mg/L   | 1   | 0.004 | 0.010 | 96    |       | 5/7/10 04:00:00 | N V      |
| Q1004219-09 | Orthophosphate as Phosphorus | DUP | K1004575-004  | Water  | 0.00 mg/L  | 50 mL       | 0.010 mg/L   | U 1 | 0.004 | 0.010 |       | NC    | 5/7/10 04:00:00 | N V      |
| Q1004219-10 | Orthophosphate as Phosphorus | LCS |               | Water  | 0.35 mg/L  | 5 mL        | 3.48 mg/L    | 1   | 0.04  | 0.10  | 97    |       | 5/7/10 04:00:00 | N 1      |
| Q1004219-11 | Orthophosphate as Phosphorus | MB  |               | Water  | 0.00 mg/L  | 50 mL       | 0.010 mg/L   | U 1 | 0.004 | 0.010 |       |       | 5/7/10 04:00:00 | N 1      |

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indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 5/12/10 8:58

Results Summary

Page 1 of 1

*Handwritten:* 5/12/10  
SARWOOD

DU520 S/N: 0112U2001732 1.03  
 07-MAY-10 16:44:54 SCA Group 0779  
 Wavelength: 650.0 nm  
 Formula: A=a+bC a: -0.0049 b: 2.0667

| Sample | Net A            | Dil X                  | mg/L                         |
|--------|------------------|------------------------|------------------------------|
| 0001   | 0.000            | 1.0000                 | 0.0024 CCB-1                 |
| 0002   | 0.986            | 1.0000                 | 0.4793 CCV-1                 |
| 0003   | 0.001            | 1.0000                 | 0.0028 MB-1                  |
| 0004   | 0.714            | 1.0000 <sup>5/50</sup> | 0.3479 LCS-1                 |
| 0005   | 0.094            | 1.0000                 | 0.0478 154575-1              |
| 0006   | 0.051            | 1.0000                 | 0.0270 -2                    |
| 0007   | 0.039            | 1.0000                 | 0.0211 -3                    |
| 0008   | 0.002            | 1.0000                 | 0.0032 -4                    |
| 0009   | 0.003            | 1.0000                 | 0.0036 -4d                   |
| 0010   | <del>0.356</del> | <del>1.0000</del>      | <del>0.1744 -4ms NR</del>    |
| 0011   | 0.790            | 1.0000                 | 0.3846 -4msd                 |
| 0012   | 0.144            | 1.0000                 | 0.0721 K4587-1               |
| 0013   | 0.002            | 1.0000                 | 0.0033 -CCB-2                |
| 0014   | 0.979            | 1.0000                 | 0.4762 CCV-2                 |
| 0015   | <del>0.127</del> | <del>1.0000</del>      | <del>0.0638 K4587-2 NR</del> |
| 0016   | <del>0.000</del> | <del>1.0000</del>      | <del>0.0024 NR</del>         |
| 0017   | 1.082            | 1.0000                 | 0.5259 -K4343-10             |
| 0018   | 0.386            | 1.0000                 | 0.1893 -K4575-4msd           |
| 0019   | <del>0.014</del> | <del>1.0000</del>      | <del>0.0091</del>            |
| 0020   | <del>0.000</del> | <del>1.0000</del>      | <del>0.0025</del>            |
| 0021   | <del>0.975</del> | <del>1.0000</del>      | <del>0.4741</del>            |
| 0022   | 1.095            | 1.0000                 | 0.5321 K4590-1 - 0.5271      |
| 0023   | 0.048            | 1.0000                 | 0.0257 - BG CHECK            |
| 0024   | 0.006            | 1.0000                 | 0.0050 CCB-3                 |
| 0025   | 0.955            | 1.0000                 | 0.4642 CCV-3                 |

*SAC*  
 K4587-2  
 ACCIDENTALLY  
 CROSSED LINE  
 OUT, STILL  
 VALID. ~~✗~~  
 5/7/10

*OK*  
 5/12/10

*OTES* 5/7/10



DU520 S/N: 0112U2001732 1.03  
07-MAY-10 16:44:42 SCA  
Wavelength: 650.0 nm  
Formula: A=a+bC a: -0.0049 b: 2.0667

UPMS 1101  
4:00pm  
5/7/10  
K4575, K4587,  
K4590, K4343

| mg/L   | Net A  | r2=1.000 | Var=0.0002 |
|--------|--------|----------|------------|
| 0.0000 | -0.000 |          |            |
| 0.0100 | 0.021  |          |            |
| 0.0500 | 0.102  |          |            |
| 0.1000 | 0.199  |          |            |
| 0.2000 | 0.401  |          |            |
| 0.5000 | 1.007  |          |            |
| 0.7000 | 1.460  |          |            |

CURVE ID#: PO<sub>3</sub>/3-4-J

CCV ID#: PO<sub>3</sub>/3-24-J

~~3/1~~  
5/12/10

99979

|                |                         |      |      |      |      |      |      |      |
|----------------|-------------------------|------|------|------|------|------|------|------|
| Work Request # | Original<br>(4001)      | 4445 | 4180 | 4216 | 4376 | 4257 | 4338 | 4481 |
| Tier:          | V                       | 11   | 1    | 11   | 11   | 11   | 11   | V    |
| Date Analyzed: | 5.10.10                 |      | 4483 | 4414 | 4455 | 4467 | 4591 | 4575 |
| Analyst:       | mb                      |      | V    | 11   | V    | V    | V    | V    |
| Analysis:      | dlk, b, carb, carb, OH- |      | 4635 |      |      |      |      |      |
|                |                         |      | V    |      |      |      |      |      |

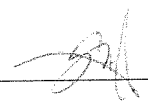
**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct? (Dry Weight)  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits?  yes/no/NA
  - d. Are results for methods blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)  yes/no/NA
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labelled correctly?  yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample)  yes/no/NA
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analysis/Extraction stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#)  yes/no/NA

**COMMENTS:**

Rush, 4445 due 5.12

Final Approved by:  Date: 5/10/10 DQREPORT

199979

Request #: \_\_\_\_\_ Method: EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO<sub>3</sub>: Total / Bicarbonate / Carbonate / Hydroxide

| PH Meter Calibration | Sample #               | MB   | LCS  | LOSD | 4201-1 | 4201-1d | 4201-2 | 4445-5 |
|----------------------|------------------------|------|------|------|--------|---------|--------|--------|
| pH 12.45             | Initial pH             | 5.37 | 8.95 | 8.93 | 7.44   | 7.37    | 6.02   | 7.39   |
|                      | Titrant used to pH 8.3 |      |      |      |        |         |        |        |
| pH 10.00             | Titrant used to pH 4.5 | 0.11 | 3.27 | 3.39 | 2.96   | 2.99    | 0.33   | 5.08   |
| 10.00                | Titrant used to pH 4.2 | 0.31 |      |      |        |         | 0.59   |        |
| pH 7.00              | Sample Volume          | 100  | 50   | 50   | 50     | 50      | 100    | 53     |
| 7.00                 | Alkalinity             | <2   | 65.4 | 67.8 | 59.2   | 59.8    | <2.0   | 95.8   |
| pH 4.00              | Bicarbonate            |      |      |      |        |         |        |        |
| 4.00                 | Carbonate              |      |      |      |        |         |        |        |
| PH 4.00 Chk.         | Hydroxide              |      |      |      |        |         |        |        |
| 4.04                 |                        |      |      |      |        |         |        |        |

| Sample #               | 4180-1 | 4216-1 | 4216-2 | BV   | 4216-3 | 4216-4 | 4216-5 | 4216-6 |
|------------------------|--------|--------|--------|------|--------|--------|--------|--------|
| Initial pH             | 7.03   | 6.46   | 7.39   | 4.03 | 6.81   | 7.14   | 6.80   | 6.74   |
| Titrant used to pH 8.3 |        |        |        | 7    |        |        |        |        |
| Titrant used to pH 4.5 | 1.31   | 2.76   | 27.71  |      | 14.88  | 40.68  | 15.78  | 17.89  |
| Titrant used to pH 4.2 |        |        |        |      |        |        |        |        |
| Sample Volume          | 50     | 50     | 50     |      | 50     | 51     | 53     | 50     |
| Alkalinity             | 26.2   | 55.2   | 55.4   |      | 298    | 798    | 298    | 358    |
| Bicarbonate            |        |        |        |      |        |        |        |        |
| Carbonate              |        |        |        |      |        |        |        |        |
| Hydroxide              |        |        |        |      |        |        |        |        |

CS: <sup>EPA</sup> APG = \_\_\_\_\_ Lot # = 5161-678 True Value = 67.9 % Rec. = 96 / 100 (10 / 94)

Probe ID#: NU1 Titrant Manf: RCC 1909615

Calculations: Alkalinity =  $\frac{A \times N \times 50,000}{\text{Volume (mls)}}$  A = mls standard titrant used N = Normality of standard acid 0.02 / 0.1 N(HCL)

Comments: 0.16 5.10 4201-111d  $\bar{x} = 59.5$  RPD = 1

Analyzed By: *sb* Date: 5/10/10  
 Reviewed By: *[Signature]* Date: 5/11/10

Columbia Analytical Services, Inc.

Service Request #: \_\_\_\_\_ Method : \_\_\_\_\_ EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO<sub>3</sub> : Total / Bicarbonate / Carbonate / Hydroxide

|                        |        |         |        |        |                     |                      |      |                     |
|------------------------|--------|---------|--------|--------|---------------------|----------------------|------|---------------------|
| Sample #               | 4376-1 | 4376-1d | 4376-8 | 4376-9 | 4252-1 <sup>c</sup> | 4252-1d <sup>*</sup> | BC   | 4252-2 <sup>*</sup> |
| Initial pH             | 6.73   | 6.71    | 7.58   | 6.81   | 6.62                | 6.56                 | 4.04 | 6.94                |
| Titrant used to pH 8.3 |        |         |        |        |                     |                      | 7    |                     |
| Titrant used to pH 4.5 | 10.59  | 9.72    | 10.62  | 10.58  | 8.49                | 8.33                 |      | 13.29               |
| Titrant used to pH 4.2 |        |         |        |        |                     |                      |      |                     |
| Sample Volume          | 54     | 50      | 51     | 50     | <del>50</del> 50    | 50                   |      | 52                  |
| Alkalinity             | 196    | 194     | 208    | 212    | 849                 | 833                  |      | 1280                |
| Bicarbonate            |        |         |        |        |                     |                      |      |                     |
| Carbonate              |        |         |        |        |                     |                      |      |                     |
| Hydroxide              |        |         |        |        |                     |                      |      |                     |

|                        |                     |                     |                     |                     |        |                     |        |        |
|------------------------|---------------------|---------------------|---------------------|---------------------|--------|---------------------|--------|--------|
| Sample #               | 4252-3 <sup>*</sup> | 4252-4 <sup>*</sup> | 4252-5 <sup>*</sup> | 4252-6 <sup>*</sup> | 4252-7 | 4252-8 <sup>*</sup> | 4338-1 | 4338-2 |
| Initial pH             | 7.01                | 7.06                | 7.48                | 6.91                | 7.11   | 6.86                | 7.74   | 7.77   |
| Titrant used to pH 8.3 |                     |                     |                     |                     |        |                     |        |        |
| Titrant used to pH 4.5 | 18.02               | 12.59               | 15.06               | 23.72               | 1.91   | 25.21               | 13.09  | 10.81  |
| Titrant used to pH 4.2 |                     |                     |                     |                     |        |                     |        |        |
| Sample Volume          | 50                  | 52                  | 10                  | 50                  | 50     | 50                  | 50     | 50     |
| Alkalinity             | 1800                | 1210                | 7530                | 2370                | 38.2   | 2520                | 262    | 216    |
| Bicarbonate            |                     |                     |                     |                     |        |                     | 262    | 216    |
| Carbonate              |                     |                     |                     |                     |        |                     | <2     | <2     |
| Hydroxide              |                     |                     |                     |                     |        |                     |        |        |

|                        |         |      |                 |                  |        |        |        |         |
|------------------------|---------|------|-----------------|------------------|--------|--------|--------|---------|
| Sample #               | 4338-2d | BC   | MB <sub>2</sub> | LCS <sub>2</sub> | 4481-3 | 4481-4 | 4481-5 | 4481-5d |
| Initial pH             | 7.79    | 4.03 | 5.66            | 8.98             | 6.62   | 6.69   | 7.22   | 7.75    |
| Titrant used to pH 8.3 |         | 7    |                 |                  |        |        |        |         |
| Titrant used to pH 4.5 | 10.89   |      | 0.19            | 3.52             | 20.41  | 25.88  | 9.21   | 9.08    |
| Titrant used to pH 4.2 |         |      | 0.38            |                  |        |        |        |         |
| Sample Volume          | 50      |      | 100             | 50               | 50     | 50     | 50     | 50      |
| Alkalinity             | 218     | <2   | 70.4            | 408              | 518    | 184    | 182    |         |
| Bicarbonate            | 218     |      |                 |                  |        |        |        |         |
| Carbonate              | <2      |      |                 |                  |        |        |        |         |
| Hydroxide              |         |      |                 |                  |        |        |        |         |

Comments: *ph 5.10*

4376-111d  $\bar{x} = 195$  RPD = 1<sup>\*</sup>  
 4252-111d  $\bar{x} = 841$  RPD = 2<sup>\*</sup>  
 4338-212d  $\bar{x} = 217$  RPD < 1<sup>\*</sup>  
 4481-515d  $\bar{x} = 183$  RPD = 1<sup>\*</sup>

|                                |               |
|--------------------------------|---------------|
| Analyzed By: <i>nb</i>         | Date: 5.10.10 |
| Revised By: <i>[Signature]</i> | Date: 5/11/10 |

Columbia Analytical Services, Inc.

Service Request #: \_\_\_\_\_ Method: EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO<sub>3</sub>: Total / Bicarbonate / Carbonate / Hydroxide

|                        |        |        |        |        |      |        |        |        |
|------------------------|--------|--------|--------|--------|------|--------|--------|--------|
| Sample #               | 4483-2 | 4414-1 | 4455-1 | 4455-2 | BV   | 4467-1 | 4591-1 | 4575-1 |
| Initial pH             | 6.85   | 6.62   | 7.71   | 6.26   | 4.04 | 7.27   | 7.17   | 6.81   |
| Titrant used to pH 8.3 |        |        |        |        | 7    |        |        |        |
| Titrant used to pH 4.5 | 3.71   | 1.06   | 2.98   | 0.35   |      | 8.98   | 3.58   | 13.13  |
| Titrant used to pH 4.2 |        |        |        | 0.58   |      |        |        |        |
| Sample Volume          | 50     | 100    | 50     | 100    |      | 52     | 50     | 50     |
| Alkalinity             | 74.2   | 10.6   | 59.6   | 22     |      | 173    | 71.6   | 263    |
| Bicarbonate            |        |        |        |        |      | 173    |        | 263    |
| Carbonate              |        |        |        |        |      | <2     |        | <2     |
| Hydroxide              |        |        |        |        |      | <2     |        | <2     |

|                        |        |        |        |        |        |        |      |      |
|------------------------|--------|--------|--------|--------|--------|--------|------|------|
| Sample #               | 4575-2 | 4575-3 | 4575-4 | 4635-1 | 4635-2 | 4635-3 | MD*  | BV   |
| Initial pH             | 7.11   | 7.07   | 8.58   | 7.57   | 6.83   | 7.11   | 5.39 | 4.03 |
| Titrant used to pH 8.3 |        |        | 0.04   |        |        |        |      | 7    |
| Titrant used to pH 4.5 | 10.98  | 10.72  | 7.71   | 13.81  | 0.16   | 16.12  | 0.01 |      |
| Titrant used to pH 4.2 |        |        | 0.91   |        | 0.37   |        | 0.02 |      |
| Sample Volume          | 50     | 50     | 100    | 50     | 100    | 52     | 100  |      |
| Alkalinity             | 220    | 214    | 5.1    | 276    | <2     | 310    | <2   |      |
| Bicarbonate            | 220    | 214    | 276    | 276    | <2     | 310    |      |      |
| Carbonate              | <2     | <2     | <2     | <2     | <2     | <2     |      |      |
| Hydroxide              | <2     | <2     | <2     | <2     | <2     | <2     |      |      |

|                        |      |      |  |  |  |  |  |  |
|------------------------|------|------|--|--|--|--|--|--|
| Sample #               | 605* | 81*  |  |  |  |  |  |  |
| Initial pH             | 5.88 | 4.04 |  |  |  |  |  |  |
| Titrant used to pH 8.3 |      | 7    |  |  |  |  |  |  |
| Titrant used to pH 4.5 | 0.64 |      |  |  |  |  |  |  |
| Titrant used to pH 4.2 |      |      |  |  |  |  |  |  |
| Sample Volume          | 50   |      |  |  |  |  |  |  |
| Alkalinity             | 64.0 |      |  |  |  |  |  |  |
| Bicarbonate            |      |      |  |  |  |  |  |  |
| Carbonate              |      |      |  |  |  |  |  |  |
| Hydroxide              |      |      |  |  |  |  |  |  |

Comments: 9nb 5.10

Analyzed By: nb Date: 5.10.10  
 Reveiwed By: [Signature] Date: 5/11/10

[Signature] 5/11/10 RE  
 272

Work Request # <sup>Original</sup> (4573) 4575 4635 4664 4711 4744 4743  
 Tier: 1 V V 1 11 V V  
 Date Analyzed: 5/13/10 4782 4765  
 Analyst: nh/nbfor CES 1 1  
 Analysis: TDS

20052)

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ? yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
  - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
  - d. Are results for methods blanks all ND? yes/no/NA
  - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
  - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

**COMMENTS:**

Final Approved by: \_\_\_\_\_



Date: \_\_\_\_\_

5/18/10

DQREPORT



COLUMBIA ANALYTICAL SERVICES, INC.

200521

Work Order #:

Method: EPA SM 2540 C

Analysis:

Total Dissolved Solids

| Sample #      | Crucible # | Conductivity | Sample Volume (ml) | Wt, Cru. + Dry sample (1) (g) | Wt, Cru. + Dry sample (2) (g) | Wt, Cru. + Dry sample (3) (g) | Wt. Crucible (g) | Wt. Dry Sample (g) | TDS (mg/L) | TDS (mg/L) reported |
|---------------|------------|--------------|--------------------|-------------------------------|-------------------------------|-------------------------------|------------------|--------------------|------------|---------------------|
| MB            | R41        |              | 200                | 130.1162                      | 130.1166                      |                               | 130.1164         | -0.0002            | -1         | <5                  |
| MB            | 2713       |              | 200                | 122.0077                      | 122.0078                      |                               | 122.0074         | 0.0003             | 2          | <5                  |
| LCS           | 115 S      |              | 50                 | 86.6122                       | 86.6127                       |                               | 86.5776          | 0.0346             | 692        | 692                 |
| DLCS          | J6         |              | 50                 | 70.7345                       | 70.7348                       |                               | 70.6993          | 0.0352             | 704        | 704                 |
| K1004573-001  | 3/31/2008  | 272          | 100                | 84.9862                       | 84.9864                       |                               | 84.9683          | 0.0179             | 179        | 179                 |
| K1004573-002  | J12        | 293          | 100                | 77.4013                       | 77.4015                       |                               | 77.3824          | 0.0189             | 189        | 189                 |
| K1004575-001  | J16        | 553          | 100                | 75.0907                       | 75.0910                       |                               | 75.0529          | 0.0378             | 378        | 378                 |
| K1004575-002  | 17 S       | 2020         | 75                 | 78.9659                       | 78.9655                       |                               | 78.8659          | 0.1000             | 1333       | 1330                |
| K1004575-003  | 48A        | 1990         | 75                 | 63.9294                       | 63.9297                       |                               | 63.8425          | 0.0869             | 1159       | 1160                |
| K1004575-004  | 36A        | 6            | 200                | 75.0045                       | 75.0049                       |                               | 75.0039          | 0.0006             | 3          | <5                  |
| K1004635-001  | 316        | 894          | 100                | 81.4212                       | 81.4210                       |                               | 81.3677          | 0.0535             | 535        | 535                 |
| K1004635-002  | 42 S       | 3            | 200                | 73.2099                       | 73.2095                       |                               | 73.2060          | 0.0039             | 20         | 19.5                |
| K1004635-003  | A18        | 1720         | 75                 | 75.7609                       | 75.7606                       |                               | 75.6884          | 0.0725             | 967        | 967                 |
| K1004664-001  | 22A        | 8190         | 50                 | 77.9003                       | 77.9003                       |                               | 77.6929          | 0.2074             | 4148       | 4150                |
| K1004711-001  | B2         | 21           | 200                | 71.3374                       | 71.3369                       |                               | 71.3324          | 0.0050             | 25         | 25.0                |
| K1004744-001  | DC         | 601          | 100                | 60.4562                       | 60.4566                       |                               | 60.4187          | 0.0375             | 375        | 375                 |
| K1004744-002  | MM         | 3050         | 50                 | 81.4618                       | 81.4615                       |                               | 81.3664          | 0.0954             | 1908       | 1910                |
| K1004744-003  | 9 S        | 2            | 200                | 80.4051                       | 80.4055                       |                               | 80.4033          | 0.0018             | 9          | 9.00                |
| K1004744-004  | 20 C       | 809          | 100                | 73.5827                       | 73.5825                       |                               | 73.5336          | 0.0491             | 491        | 491                 |
| K1004743-001  | EE         | 139          | 100                | 79.3228                       | 79.3232                       |                               | 79.3150          | 0.0078             | 78         | 78.0                |
| K1004743-002  | C16        | 1            | 200                | 85.9841                       | 85.9836                       |                               | 85.9825          | 0.0016             | 8          | 8.00                |
| K1004782-001  | Jayla      | 800          | 100                | 73.3139                       | 73.3139                       |                               | 73.2601          | 0.0538             | 538        | 538                 |
| K1004782-002  | Simon      | 777          | 100                | 70.0817                       | 70.0821                       |                               | 70.0253          | 0.0564             | 564        | 564                 |
| K1004765-001  | 2 C        | 273          | 100                | 73.3259                       | 73.3258                       |                               | 73.3024          | 0.0235             | 235        | 235                 |
| K1004743-001d | 20A        | 139          | 100                | 67.7393                       | 67.7393                       |                               | 67.7320          | 0.0073             | 73         | 73.0                |

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml) 92 Balance#31

APG #:4033 Lot# 041109 ID# TDS/1-25-H T.V. = 750 % Rec = ~~92~~ 94

|              |      |              |      |              |      |           |                |
|--------------|------|--------------|------|--------------|------|-----------|----------------|
| Wt (1) Start | 1600 | Wt (2) Start | 0910 | Wt (3) Start | 1110 |           |                |
| Stop         |      | Stop         | 5.17 | Stop         | 1300 | 4743-1/1d | X=76' RPD=7'   |
| Wt (1) Start | 105  | Wt (2) Start |      | Wt (3) Start | 178  | 4575-2/2d | X=1270' RPD=9' |
| Temp Stop    |      | Temp Stop    | 180  | Temp Stop    | 180  | date      | time           |

Analyzed By: *ab/nh for CES* Date Analyzed: 5/13/2010 13:00  
 Reviewed By: *[Signature]* Date Reviewed: 5/18/10

*OSN 5/18/10 RE*



Work Request # <sup>Original</sup> (K4591) K4575  
 Tier: IV IV  
 Date Analyzed: 5/7/10  
 Analyst: NB  
 Analysis: PH 4500H+B

**DATA QUALITY REPORT  
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate?  yes/no/NA
2. Holding times met for all analyses and for all samples?  yes/no/NA
3. Are calculations correct?  yes/no/NA
4. Is the reporting basis correct (Dry Weight)?  yes/no/NA
5. All quality control criteria met?  yes/no/NA
  - a. Is the calibration curve correlation coefficient  $\geq 0.995$ ?  yes/no/NA
  - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes analyzed at proper frequency?  yes/no/NA
  - c. Are ICVs, CCVs, and CCBs, all within acceptance limits?  yes/no/NA
  - d. Are results for method blanks all ND?  yes/no/NA
  - e. Are all QC samples within acceptance criteria?  yes/no/NA  
(LCS %Rec, MS/DMS %Rec, DUP or MS/DMS RPDs, etc.)
  - f. Are all exceptions explained?  yes/no/NA
6. Are all service requests that apply attached?  yes/no/NA
7. Are all samples labeled correctly?  yes/no/NA
8. Have all instructions on the service request been followed?  yes/no/NA  
(e.g. Special MRLs, QC on a specific sample)
9. Are detection limits and units reported correctly?  yes/no/NA
10. Are proper Analytical Batch stickers included on report?  yes/no/NA
11. Is the unused space on the benchsheet crossed out?  yes/no/NA
12. Was analysis turned in by the due date (n-2)? If not, record SR#.  yes/no/NA

**COMMENTS:**

4591 - RPH  
 4575 - RPH

Final Approval By:  Date: 5/10/10

K4591, 4575

Method: SM 4500 H+B

| Sample #        | pH    | Time Analyzed | Temp. C |
|-----------------|-------|---------------|---------|
| pH 12.45 Buffer |       |               |         |
| pH 10.00 Buffer | 10.00 | 0930          | 25.0    |
| pH 7.00 Buffer  | 7.00  | 0929          | 25.1    |
| pH 4.00 Buffer  | 4.00  | 0928          | 25.4    |
| pH 1.00 Buffer  |       |               |         |
| LCS             |       |               |         |
| Buffer Check    | 4.01  | 0931          | 25.1    |
| LCS             | 6.38  | 1628          | 26      |
| 4591-1          | 7.29  | 1629          | 26      |
| 4575-1          | 6.91  | 1630          | 26      |
| 2               | 7.34  | 1631          | 25      |
| 3               | 7.33  | 1632          | 26      |
| 4               | 6.76  | 1633          | 26      |
| 4d              | 6.74  | 1634          | 26      |
| BV              | 4.02  | 1635          | 26      |
| Buffer Check    |       |               |         |

| Sample #     | pH | Time Analyzed | Temp. C |
|--------------|----|---------------|---------|
| Buffer Check |    |               |         |
| Buffer Check |    |               |         |

DEBA  
 LCS = APG 4063 Lot# 129934 ID# = cond-1-54-R T.V. = 6.46 % REC = 99  
 pH 4.00 buffer Cond/1-75-K pH 7.00 buffer Cond/1-77-N pH 10.00 buffer Cond/1-79-K  
 pH 1.00 buffer Cond/1-73- pH 12.45 buffer Cond/1-81-

OKC shield

4575/4-4d  $\bar{x} = 6.75$  RPD = 21%

OKC 5/7/10

|                  |               |
|------------------|---------------|
| Analyzed by: nb  | Date: 5/7/10  |
| Reviewed by: SAN | Date: 5/10/10 |

## **Metals**

# Columbia Analytical Services

## - Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent  
Project Name: Heglar Kronquist  
Project No.: 0907194.000.0601

Service Request: K1004575

Sample Name:

BH-12  
BH-12D  
BH-12S  
BH-10  
BH-10D  
BH-14  
BH-14S  
EB-050610  
Method Blank

Lab Code:

K1004575-001 DISS  
K1004575-001D DISS  
K1004575-001S DISS  
K1004575-002 DISS  
K1004575-002D DISS  
K1004575-003 DISS  
K1004575-003S DISS  
K1004575-004 DISS  
K1004575-MB

Comments:

Approved By: 3c

Date: 5/28/10



**METALS**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Exponent Service Request: K1004575  
 Project No.: 0907194.000.0601 Date Collected: 5/6/2010  
 Project Name: Heglär Kronquist Date Received: 5/7/2010  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: BH-12 Lab Code: K1004575-001 DISS

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50    | 30    | 1.0         | 05/13/10       | 05/26/10      | 1070   |   |   |
| Antimony  | 200.8           | 0.050 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.082  |   |   |
| Arsenic   | 200.8           | 0.5   | 0.1   | 1.0         | 05/13/10       | 05/14/10      | 2.1    |   |   |
| Barium    | 200.7           | 5.0   | 0.6   | 1.0         | 05/13/10       | 05/26/10      | 150    |   |   |
| Beryllium | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.042  |   |   |
| Cadmium   | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.051  |   |   |
| Calcium   | 200.7           | 50.0  | 6.0   | 1.0         | 05/13/10       | 05/26/10      | 58000  |   |   |
| Chromium  | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 1.39   |   |   |
| Cobalt    | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 4.230  |   |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/13/10       | 05/18/10      | 2.56   |   |   |
| Iron      | 200.7           | 20.0  | 0.8   | 1.0         | 05/13/10       | 05/26/10      | 2070   |   |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/18/10      | 0.684  |   |   |
| Magnesium | 200.7           | 20.0  | 0.3   | 1.0         | 05/13/10       | 05/26/10      | 22800  |   |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/13/10       | 05/26/10      | 560    |   |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 5.27   |   |   |
| Potassium | 200.7           | 400   | 40    | 1.0         | 05/13/10       | 05/26/10      | 7220   |   |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/13/10       | 05/14/10      | 0.5    | J |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/13/10       | 05/14/10      | 0.004  | U |   |
| Sodium    | 200.7           | 100   | 20    | 1.0         | 05/13/10       | 05/26/10      | 31900  |   |   |
| Thallium  | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | J |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/13/10       | 05/18/10      | 1.89   |   |   |
| Zinc      | 200.8           | 0.5   | 0.2   | 1.0         | 05/13/10       | 05/14/10      | 5.4    |   |   |

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004575  
 Project No.: 0907194.000.0601 Date Collected: 5/6/2010  
 Project Name: Heglär Kronquist Date Received: 5/7/2010  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: BH-10 Lab Code: K1004575-002 DISS

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50    | 30    | 1.0         | 05/13/10       | 05/26/10      | 132    |   |   |
| Antimony  | 200.8           | 0.050 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.103  |   |   |
| Arsenic   | 200.8           | 0.5   | 0.1   | 1.0         | 05/13/10       | 05/14/10      | 0.2    | J |   |
| Barium    | 200.7           | 5.0   | 0.6   | 1.0         | 05/13/10       | 05/26/10      | 99.0   |   |   |
| Beryllium | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Cadmium   | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.016  | J |   |
| Calcium   | 200.7           | 50.0  | 6.0   | 1.0         | 05/13/10       | 05/26/10      | 151000 |   |   |
| Chromium  | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.25   |   |   |
| Cobalt    | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 12.4   |   |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/13/10       | 05/18/10      | 1.42   |   |   |
| Iron      | 200.7           | 20.0  | 0.8   | 1.0         | 05/13/10       | 05/26/10      | 199    |   |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/18/10      | 0.038  |   |   |
| Magnesium | 200.7           | 20.0  | 0.3   | 1.0         | 05/13/10       | 05/26/10      | 52600  |   |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/13/10       | 05/26/10      | 1200   |   |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 15.3   |   |   |
| Potassium | 200.7           | 400   | 40    | 1.0         | 05/13/10       | 05/26/10      | 14700  |   |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/13/10       | 05/14/10      | 0.6    | J |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/13/10       | 05/14/10      | 0.010  | J |   |
| Sodium    | 200.7           | 100   | 20    | 1.0         | 05/13/10       | 05/26/10      | 139000 |   |   |
| Thallium  | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.012  | J |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/13/10       | 05/18/10      | 0.71   |   |   |
| Zinc      | 200.8           | 0.5   | 0.2   | 1.0         | 05/13/10       | 05/14/10      | 1.3    |   |   |

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004575  
 Project No.: 0907194.000.0601 Date Collected: 5/6/2010  
 Project Name: Heglär Kronquist Date Received: 5/7/2010  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: BH-14 Lab Code: K1004575-003 DISS

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50    | 30    | 1.0         | 05/13/10       | 05/26/10      | 127    |   |   |
| Antimony  | 200.8           | 0.050 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.107  |   |   |
| Arsenic   | 200.8           | 0.5   | 0.1   | 1.0         | 05/13/10       | 05/14/10      | 0.1    | U |   |
| Barium    | 200.7           | 5.0   | 0.6   | 1.0         | 05/13/10       | 05/26/10      | 98.6   |   |   |
| Beryllium | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Cadmium   | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.022  |   |   |
| Calcium   | 200.7           | 50.0  | 6.0   | 1.0         | 05/13/10       | 05/26/10      | 152000 |   |   |
| Chromium  | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.23   |   |   |
| Cobalt    | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 12.5   |   |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/13/10       | 05/18/10      | 1.51   |   |   |
| Iron      | 200.7           | 20.0  | 0.8   | 1.0         | 05/13/10       | 05/26/10      | 180    |   |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/18/10      | 0.060  |   |   |
| Magnesium | 200.7           | 20.0  | 0.3   | 1.0         | 05/13/10       | 05/26/10      | 53000  |   |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/13/10       | 05/26/10      | 1210   |   |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 15.6   |   |   |
| Potassium | 200.7           | 400   | 40    | 1.0         | 05/13/10       | 05/26/10      | 14900  |   |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/13/10       | 05/14/10      | 0.7    | J |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/13/10       | 05/14/10      | 0.004  | J |   |
| Sodium    | 200.7           | 100   | 20    | 1.0         | 05/13/10       | 05/26/10      | 140000 |   |   |
| Thallium  | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.009  | J |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/13/10       | 05/18/10      | 0.70   |   |   |
| Zinc      | 200.8           | 0.5   | 0.2   | 1.0         | 05/13/10       | 05/14/10      | 1.5    |   |   |

% Solids: 0.0

Comments:

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004575  
 Project No.: 0907194.000.0601 Date Collected: 5/6/2010  
 Project Name: Heglar Kronquist Date Received: 5/7/2010  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: EB-050610

Lab Code: K1004575-004 DISS

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50    | 30    | 1.0         | 05/13/10       | 05/26/10      | 30     | U |   |
| Antimony  | 200.8           | 0.050 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.007  | J |   |
| Arsenic   | 200.8           | 0.5   | 0.1   | 1.0         | 05/13/10       | 05/14/10      | 0.1    | J |   |
| Barium    | 200.7           | 5.0   | 0.6   | 1.0         | 05/13/10       | 05/26/10      | 0.6    | U |   |
| Beryllium | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Cadmium   | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.005  | U |   |
| Calcium   | 200.7           | 50.0  | 6.0   | 1.0         | 05/13/10       | 05/26/10      | 87.7   |   |   |
| Chromium  | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.10   | J |   |
| Cobalt    | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/13/10       | 05/18/10      | 0.06   | J |   |
| Iron      | 200.7           | 20.0  | 0.8   | 1.0         | 05/13/10       | 05/26/10      | 2.6    | J |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/18/10      | 0.014  | J |   |
| Magnesium | 200.7           | 20.0  | 0.3   | 1.0         | 05/13/10       | 05/26/10      | 7.5    | J |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/13/10       | 05/26/10      | 0.2    | U |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.02   | U |   |
| Potassium | 200.7           | 400   | 40    | 1.0         | 05/13/10       | 05/26/10      | 40     | U |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/13/10       | 05/14/10      | 0.4    | J |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/13/10       | 05/14/10      | 0.004  | U |   |
| Sodium    | 200.7           | 100   | 20    | 1.0         | 05/13/10       | 05/26/10      | 26     | J |   |
| Thallium  | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.005  | U |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/13/10       | 05/18/10      | 0.03   | U |   |
| Zinc      | 200.8           | 0.5   | 0.2   | 1.0         | 05/13/10       | 05/14/10      | 0.4    | J |   |

% Solids: 0.0

Comments:

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004575  
 Project No.: 0907194.000.0601 Date Collected:  
 Project Name: Heglar Kronquist Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: N/A

Sample Name: Method Blank

Lab Code: K1004575-MB

| Analyte   | Analysis Method | MRL   | MDL   | Dil. Factor | Date Extracted | Date Analyzed | Result | C | Q |
|-----------|-----------------|-------|-------|-------------|----------------|---------------|--------|---|---|
| Aluminum  | 200.7           | 50    | 30    | 1.0         | 05/13/10       | 05/26/10      | 30     | U |   |
| Antimony  | 200.8           | 0.050 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.010  | J |   |
| Arsenic   | 200.8           | 0.5   | 0.1   | 1.0         | 05/13/10       | 05/14/10      | 0.1    | J |   |
| Barium    | 200.7           | 5.0   | 0.6   | 1.0         | 05/13/10       | 05/26/10      | 0.6    | U |   |
| Beryllium | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Cadmium   | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.005  | U |   |
| Calcium   | 200.7           | 50.0  | 6.0   | 1.0         | 05/13/10       | 05/26/10      | 6.0    | U |   |
| Chromium  | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.08   | J |   |
| Cobalt    | 200.8           | 0.020 | 0.006 | 1.0         | 05/13/10       | 05/14/10      | 0.006  | U |   |
| Copper    | 200.8           | 0.10  | 0.02  | 1.0         | 05/13/10       | 05/17/10      | 0.02   | U |   |
| Iron      | 200.7           | 20.0  | 0.8   | 1.0         | 05/13/10       | 05/26/10      | 0.8    | U |   |
| Lead      | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/17/10      | 0.005  | U |   |
| Magnesium | 200.7           | 20.0  | 0.3   | 1.0         | 05/13/10       | 05/26/10      | 0.3    | U |   |
| Manganese | 200.7           | 5.0   | 0.2   | 1.0         | 05/13/10       | 05/26/10      | 0.2    | U |   |
| Mercury   | 245.1           | 0.20  | 0.02  | 1.0         | 05/10/10       | 05/12/10      | 0.02   | U |   |
| Nickel    | 200.8           | 0.20  | 0.02  | 1.0         | 05/13/10       | 05/14/10      | 0.02   | U |   |
| Potassium | 200.7           | 400   | 40    | 1.0         | 05/13/10       | 05/26/10      | 40     | U |   |
| Selenium  | 200.8           | 1.0   | 0.3   | 1.0         | 05/13/10       | 05/14/10      | 0.3    | U |   |
| Silver    | 200.8           | 0.020 | 0.004 | 1.0         | 05/13/10       | 05/14/10      | 0.004  | U |   |
| Sodium    | 200.7           | 100   | 20    | 1.0         | 05/13/10       | 05/26/10      | 20     | U |   |
| Thallium  | 200.8           | 0.020 | 0.005 | 1.0         | 05/13/10       | 05/14/10      | 0.005  | U |   |
| Vanadium  | 200.8           | 0.20  | 0.03  | 1.0         | 05/13/10       | 05/17/10      | 0.10   | J |   |
| Zinc      | 200.8           | 0.5   | 0.2   | 1.0         | 05/13/10       | 05/14/10      | 0.2    | U |   |

% Solids: 0.0

Comments:

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Aluminum  | 5000                | 5026  | 101   | 5000                   | 4972  | 99    | 5028  | 101   | 200.7  |
| Antimony  | 25.0                | 23.7  | 95    | 25.0                   | 24.5  | 98    | 24.2  | 97    | 200.8  |
| Arsenic   | 25.0                | 23.2  | 93    | 25.0                   | 24.1  | 96    | 23.8  | 95    | 200.8  |
| Barium    | 5000                | 5240  | 105   | 2500                   | 2493  | 100   | 2491  | 100   | 200.7  |
| Beryllium | 2.50                | 2.49  | 100   | 25.00                  | 24.76 | 99    | 24.52 | 98    | 200.8  |
| Cadmium   | 12.5                | 12.3  | 98    | 25.0                   | 24.8  | 99    | 24.2  | 97    | 200.8  |
| Calcium   | 5000                | 5124  | 102   | 2500                   | 2457  | 98    | 2400  | 96    | 200.7  |
| Calcium   | 12500               | 12572 | 101   | 25000                  | 25355 | 101   | 25669 | 103   | 200.7  |
| Chromium  | 10.0                | 9.6   | 96    | 25.0                   | 24.9  | 100   | 24.3  | 97    | 200.8  |
| Cobalt    | 25.0                | 24.3  | 97    | 25.0                   | 25.2  | 101   | 24.9  | 100   | 200.8  |
| Iron      | 2500                | 2508  | 100   | 500                    | 490   | 98    | 499   | 100   | 200.7  |
| Iron      | 10000               | 9883  | 99    | 25000                  | 24836 | 99    | 25195 | 101   | 200.7  |
| Magnesium | 5000                | 5021  | 100   | 2000                   | 1980  | 99    | 1964  | 98    | 200.7  |
| Magnesium | 12500               | 12464 | 100   | 25000                  | 25038 | 100   | 24961 | 100   | 200.7  |
| Manganese | 1250                | 1210  | 97    | 1000                   | 960   | 96    | 966   | 97    | 200.7  |
| Manganese | 10000               | 10051 | 101   | 5000                   | 4964  | 99    | 4925  | 98    | 200.7  |
| Mercury   | 5.00                | 5.03  | 101   | 5.00                   | 5.29  | 106   | 5.23  | 105   | 245.1  |
| Nickel    | 25.0                | 24.4  | 98    | 25.0                   | 25.0  | 100   | 24.9  | 100   | 200.8  |
| Potassium | 12500               | 12620 | 101   | 10000                  | 9995  | 100   | 9906  | 99    | 200.7  |
| Selenium  | 25.0                | 23.3  | 93    | 25.0                   | 24.7  | 99    | 24.8  | 99    | 200.8  |
| Silver    | 12.5                | 12.3  | 98    | 25.0                   | 24.8  | 99    | 24.5  | 98    | 200.8  |
| Sodium    | 12500               | 12259 | 98    | 10000                  | 9738  | 97    | 9805  | 98    | 200.7  |
| Thallium  | 25.0                | 24.3  | 97    | 25.0                   | 24.7  | 99    | 24.5  | 98    | 200.8  |
| Zinc      | 25.0                | 25.3  | 101   | 25.0                   | 25.0  | 100   | 24.5  | 98    | 200.8  |



## METALS

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Aluminum  |                     |       |       | 5000                   | 5032  | 101   |       |       | 200.7  |
| Antimony  |                     |       |       | 25.0                   | 24.4  | 98    | 24.1  | 96    | 200.8  |
| Arsenic   |                     |       |       | 25.0                   | 24.1  | 96    | 23.9  | 96    | 200.8  |
| Barium    |                     |       |       | 2500                   | 2491  | 100   |       |       | 200.7  |
| Beryllium |                     |       |       | 25.00                  | 24.36 | 97    | 24.20 | 97    | 200.8  |
| Cadmium   |                     |       |       | 25.0                   | 24.8  | 99    | 24.3  | 97    | 200.8  |
| Calcium   |                     |       |       | 2500                   | 2425  | 97    |       |       | 200.7  |
| Calcium   |                     |       |       | 25000                  | 25335 | 101   |       |       | 200.7  |
| Chromium  |                     |       |       | 25.0                   | 24.5  | 98    | 24.2  | 97    | 200.8  |
| Cobalt    |                     |       |       | 25.0                   | 24.4  | 98    | 23.9  | 96    | 200.8  |
| Iron      |                     |       |       | 500                    | 504   | 101   |       |       | 200.7  |
| Iron      |                     |       |       | 25000                  | 25133 | 101   |       |       | 200.7  |
| Magnesium |                     |       |       | 2000                   | 1980  | 99    |       |       | 200.7  |
| Magnesium |                     |       |       | 25000                  | 25119 | 100   |       |       | 200.7  |
| Manganese |                     |       |       | 1000                   | 963   | 96    |       |       | 200.7  |
| Manganese |                     |       |       | 5000                   | 4957  | 99    |       |       | 200.7  |
| Mercury   |                     |       |       | 5.00                   | 5.13  | 103   |       |       | 245.1  |
| Nickel    |                     |       |       | 25.0                   | 24.5  | 98    | 24.3  | 97    | 200.8  |
| Potassium |                     |       |       | 10000                  | 9956  | 100   |       |       | 200.7  |
| Selenium  |                     |       |       | 25.0                   | 25.5  | 102   | 25.2  | 101   | 200.8  |
| Silver    |                     |       |       | 25.0                   | 24.6  | 98    | 24.4  | 98    | 200.8  |
| Sodium    |                     |       |       | 10000                  | 9780  | 98    |       |       | 200.7  |
| Thallium  |                     |       |       | 25.0                   | 24.5  | 98    | 24.4  | 98    | 200.8  |
| Zinc      |                     |       |       | 25.0                   | 24.4  | 98    | 24.5  | 98    | 200.8  |

## METALS

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

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Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Antimony  |                     |       |       | 25.0                   | 24.6  | 98    | 24.8  | 99    | 200.8  |
| Arsenic   |                     |       |       | 25.0                   | 23.7  | 95    | 23.8  | 95    | 200.8  |
| Beryllium |                     |       |       | 25.00                  | 25.04 | 100   | 24.82 | 99    | 200.8  |
| Cadmium   |                     |       |       | 25.0                   | 24.6  | 98    | 24.5  | 98    | 200.8  |
| Chromium  |                     |       |       | 25.0                   | 24.8  | 99    | 24.5  | 98    | 200.8  |
| Cobalt    |                     |       |       | 25.0                   | 25.1  | 100   | 24.9  | 100   | 200.8  |
| Nickel    |                     |       |       | 25.0                   | 25.3  | 101   | 25.2  | 101   | 200.8  |
| Selenium  |                     |       |       | 25.0                   | 25.9  | 104   | 25.5  | 102   | 200.8  |
| Silver    |                     |       |       | 25.0                   | 24.8  | 99    | 24.8  | 99    | 200.8  |
| Thallium  |                     |       |       | 25.0                   | 24.3  | 97    | 24.5  | 98    | 200.8  |
| Zinc      |                     |       |       | 25.0                   | 25.3  | 101   | 24.9  | 100   | 200.8  |

## METALS

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Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Antimony  |                     |       |       | 25.0                   | 24.1  | 96    | 24.3  | 97    | 200.8  |
| Arsenic   |                     |       |       | 25.0                   | 24.0  | 96    | 23.8  | 95    | 200.8  |
| Beryllium |                     |       |       | 25.00                  | 24.21 | 97    | 24.82 | 99    | 200.8  |
| Cadmium   |                     |       |       | 25.0                   | 24.2  | 97    | 24.3  | 97    | 200.8  |
| Chromium  |                     |       |       | 25.0                   | 23.9  | 96    | 24.5  | 98    | 200.8  |
| Cobalt    |                     |       |       | 25.0                   | 24.2  | 97    | 24.7  | 99    | 200.8  |
| Nickel    |                     |       |       | 25.0                   | 24.2  | 97    | 24.7  | 99    | 200.8  |
| Selenium  |                     |       |       | 25.0                   | 25.4  | 102   | 24.1  | 96    | 200.8  |
| Silver    |                     |       |       | 25.0                   | 24.6  | 98    | 24.6  | 98    | 200.8  |
| Thallium  |                     |       |       | 25.0                   | 24.2  | 97    | 24.2  | 97    | 200.8  |
| Zinc      |                     |       |       | 25.0                   | 24.4  | 98    | 24.5  | 98    | 200.8  |

METALS

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ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte  | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|          | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Copper   | 12.5                | 12.6  | 101   | 25.0                   | 24.4  | 98    | 25.0  | 100   | 200.8  |
| Lead     | 25.0                | 24.8  | 99    | 25.0                   | 24.6  | 98    | 24.6  | 98    | 200.8  |
| Vanadium | 25.0                | 24.8  | 99    | 25.0                   | 24.7  | 99    | 24.7  | 99    | 200.8  |

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Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte  | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|          | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Copper   |                     |       |       | 25.0                   | 24.7  | 99    |       |       | 200.8  |
| Lead     |                     |       |       | 25.0                   | 24.4  | 98    |       |       | 200.8  |
| Vanadium |                     |       |       | 25.0                   | 25.1  | 100   |       |       | 200.8  |

METALS

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Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte  | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|          | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Copper   | 12.5                | 12.6  | 101   | 25.0                   | 24.4  | 98    | 25.8  | 103   | 200.8  |
| Lead     | 25.0                | 25.0  | 100   | 25.0                   | 24.9  | 100   | 25.3  | 101   | 200.8  |
| Vanadium | 25.0                | 24.9  | 100   | 25.0                   | 24.3  | 97    | 25.1  | 100   | 200.8  |



## METALS

- 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

| Analyte  | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | Method |
|----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|--------|
|          | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |        |
| Copper   |                     |       |       | 25.0                   | 26.3  | 105   |       |       | 200.8  |
| Lead     |                     |       |       | 25.0                   | 26.0  | 104   |       |       | 200.8  |
| Vanadium |                     |       |       | 25.0                   | 26.1  | 104   |       |       | 200.8  |

## METALS

- 2b -

## CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |     | CRDL Standard for ICP |        |       |       |    |
|-----------|----------------------|-------|-----|-----------------------|--------|-------|-------|----|
|           | True                 | Found | %R  | Initial               |        | Final |       |    |
|           | True                 | Found | %R  | True                  | Found  | %R    | Found | %R |
| Aluminum  |                      |       |     | 50.00                 | 60.45  | 121   |       |    |
| Antimony  |                      |       |     | 0.05                  | 0.05   | 100   |       |    |
| Arsenic   |                      |       |     | 0.5                   | 0.60   | 120   |       |    |
| Barium    |                      |       |     | 5.00                  | 4.64   | 93    |       |    |
| Beryllium |                      |       |     | 0.02                  | 0.019  | 95    |       |    |
| Cadmium   |                      |       |     | 0.020                 | 0.022  | 110   |       |    |
| Calcium   |                      |       |     | 50.00                 | 42.86  | 86    |       |    |
| Chromium  |                      |       |     | 0.20                  | 0.26   | 130   |       |    |
| Cobalt    |                      |       |     | 0.02                  | 0.02   | 100   |       |    |
| Iron      |                      |       |     | 20.00                 | 20.42  | 102   |       |    |
| Magnesium |                      |       |     | 20.00                 | 17.37  | 87    |       |    |
| Manganese |                      |       |     | 5.00                  | 4.69   | 94    |       |    |
| Mercury   | 0.20                 | 0.21  | 105 |                       |        |       |       |    |
| Nickel    |                      |       |     | 0.20                  | 0.20   | 100   |       |    |
| Potassium |                      |       |     | 400.00                | 406.92 | 102   |       |    |
| Selenium  |                      |       |     | 1.0                   | 1.10   | 110   |       |    |
| Silver    |                      |       |     | 0.02                  | 0.020  | 100   |       |    |
| Sodium    |                      |       |     | 200.00                | 201.27 | 101   |       |    |
| Thallium  |                      |       |     | 0.02                  | 0.02   | 100   |       |    |
| Zinc      |                      |       |     | 0.50                  | 0.47   | 94    |       |    |

METALS

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

| Analyte  | CRDL Standard for AA |       |    | CRDL Standard for ICP |       |     |       |    |
|----------|----------------------|-------|----|-----------------------|-------|-----|-------|----|
|          | True                 | Found | %R | Initial               |       |     | Final |    |
|          | True                 | Found | %R | True                  | Found | %R  | Found | %R |
| Copper   |                      |       |    | 0.10                  | 0.14  | 140 |       |    |
| Lead     |                      |       |    | 0.02                  | 0.019 | 95  |       |    |
| Vanadium |                      |       |    | 0.20                  | 0.17  | 85  |       |    |

METALS

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CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Concentration Units: ug/L

| Analyte  | CRDL Standard for AA |       |    | CRDL Standard for ICP |       |    |       |    |
|----------|----------------------|-------|----|-----------------------|-------|----|-------|----|
|          | True                 | Found | %R | Initial               |       |    | Final |    |
|          | True                 | Found | %R | True                  | Found | %R | Found | %R |
| Copper   |                      |       |    | 0.10                  | 0.09  | 90 |       |    |
| Lead     |                      |       |    | 0.02                  | 0.018 | 90 |       |    |
| Vanadium |                      |       |    | 0.20                  | 0.16  | 80 |       |    |

METALS

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BLANKS

Client: Exponent

Service Request: K1004575

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Concentration Units: ug/L

| Analyte   | Initial Calib. Blank |   | Continuing Calibration Blank |   |       |   |       |   | Method |
|-----------|----------------------|---|------------------------------|---|-------|---|-------|---|--------|
|           |                      | C | 1                            | C | 2     | C | 3     | C |        |
| Aluminum  | 30                   | U | 30                           | U | 30    | U | 30    | U | 200.7  |
| Antimony  | 0.005                | U | 0.005                        | U | 0.005 | U | 0.005 | U | 200.8  |
| Arsenic   | 0.13                 | J | 0.21                         | J | 0.10  | U | 0.16  | J | 200.8  |
| Barium    | 0.6                  | U | 0.6                          | U | 0.6   | U | 0.6   | U | 200.7  |
| Beryllium | 0.006                | U | 0.006                        | U | 0.006 | U | 0.006 | U | 200.8  |
| Cadmium   | 0.005                | U | 0.005                        | U | 0.005 | U | 0.005 | U | 200.8  |
| Calcium   | 6.0                  | U | 6.0                          | U | 6.0   | U | 9.1   | J | 200.7  |
| Chromium  | 0.02                 | J | 0.03                         | J | 0.04  | J | 0.04  | J | 200.8  |
| Cobalt    | 0.006                | U | 0.006                        | U | 0.006 | U | 0.006 | U | 200.8  |
| Iron      | 2.6                  | J | 0.8                          | U | 2.3   | J | 3.6   | J | 200.7  |
| Magnesium | 0.3                  | U | 0.3                          | U | 0.3   | J | 2.8   | J | 200.7  |
| Manganese | 1.0                  | J | 0.7                          | J | 0.8   | J | 0.8   | J | 200.7  |
| Mercury   | 0.02                 | U | 0.02                         | U | 0.02  | U | 0.02  | U | 245.1  |
| Nickel    | 0.02                 | U | 0.02                         | U | 0.02  | U | 0.02  | U | 200.8  |
| Potassium | 40                   | U | 40                           | U | 40    | U | 40    | U | 200.7  |
| Selenium  | 0.4                  | J | 0.4                          | J | 0.3   | U | 0.4   | J | 200.8  |
| Silver    | 0.004                | U | 0.004                        | U | 0.004 | U | 0.004 | U | 200.8  |
| Sodium    | 20                   | U | 20                           | U | 20    | U | 20    | U | 200.7  |
| Thallium  | 0.005                | U | 0.005                        | U | 0.005 | U | 0.005 | U | 200.8  |
| Zinc      | 0.20                 | U | 0.20                         | U | 0.20  | U | 0.20  | U | 200.8  |