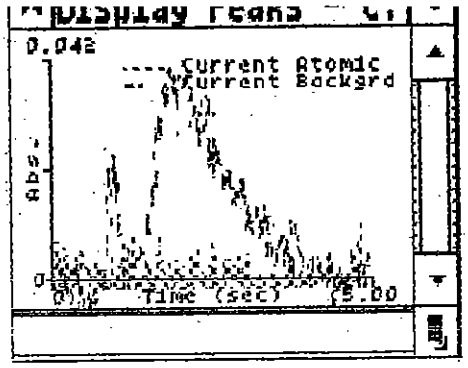
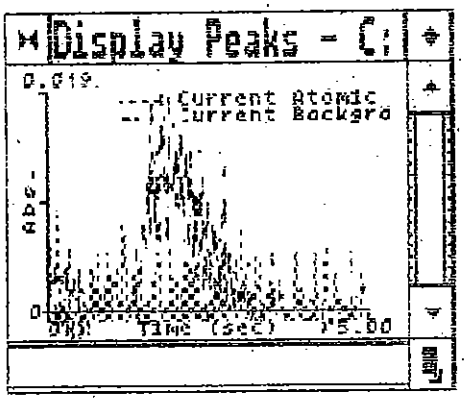


Mean Conc (mg/L): -0.0004 SD: 0.00096 RSD(%): 237.01
Corrected Conc (ppm): -0.0004

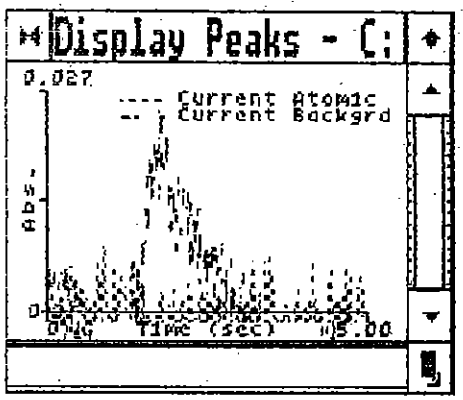
As ID: 3130-2 1/5 P=5 Seq. No.: 00030 A/S Pos.: 23 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 23
Replicate 1 Time: 13:33
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0009 Corrected Conc (ppm): -0.005



uL dispensed: 5 from 20, 20 from 23
Replicate 2 Time: 13:36

Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0010 Corrected Conc (ppm): -0.005



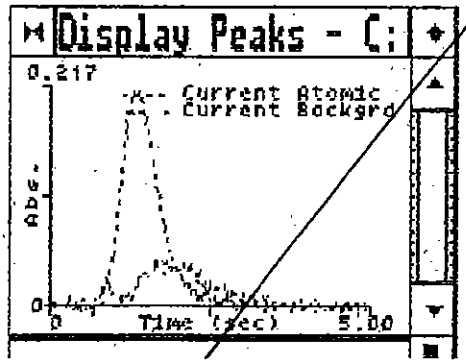
Mean Conc (mg/L): -0.0010 SD: 0.00007 RSD(%): 7.32
Corrected Conc (ppm): -0.005

****

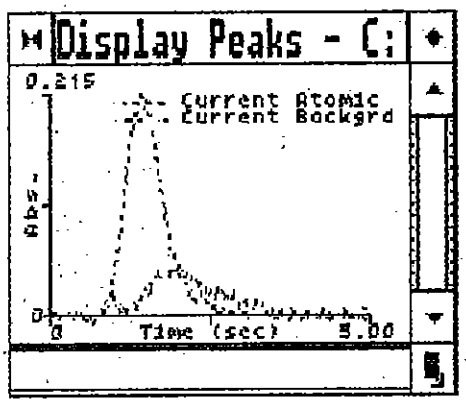
As ID: 3130-2 MS F=1 Seq. No.: 00031 A/S Pos.: 24 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 24
Replicate 1 Time: 13:39
Peak Area (A-s): 0.151 Peak Height (A): 0.217
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.152
Concentration (mg/L): 0.0636 Corrected Conc (ppm): 0.0636

5/13/03



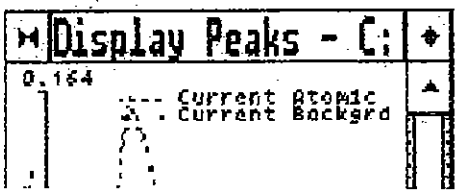
uL dispensed: 5 from 20, 20 from 24
Replicate 2 Time: 13:42
Peak Area (A-s): 0.152 Peak Height (A): 0.215
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.154
Concentration (mg/L): 0.0643 Corrected Conc (ppm): 0.0643

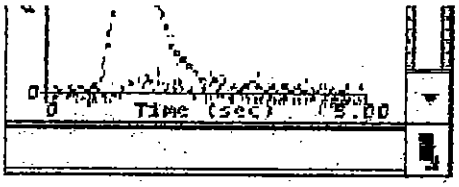


Mean Conc (mg/L): 0.0639 SD: 0.00049 RSD(%): 0.76
Corrected Conc (ppm): 0.0639

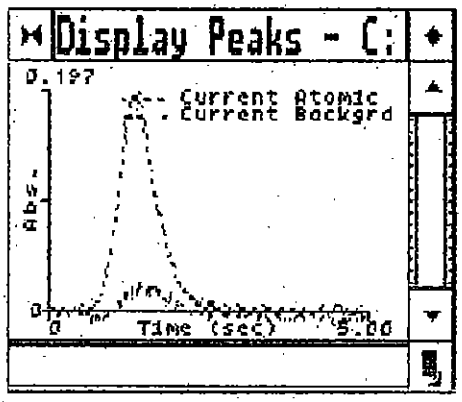
As ID: CCV A1474 Seq. No.: 00032 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 13:45
Peak Area (A-s): 0.123 Peak Height (A): 0.164
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.125
Concentration (mg/L): 0.0522 Corrected Conc (ppm): ----------





uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 13:49
Peak Area (A-s): 0.139 Peak Height (A): 0.197
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.141
Concentration (mg/L): 0.0589 Corrected Conc (ppm): ----------

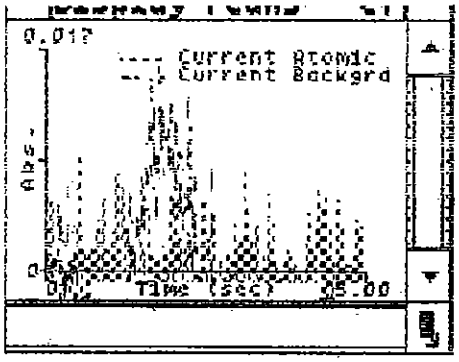


Mean Conc (mg/L): 0.0556 SD: 0.00473 RSD(%): 8.50
Corrected Conc (ppm): ----------

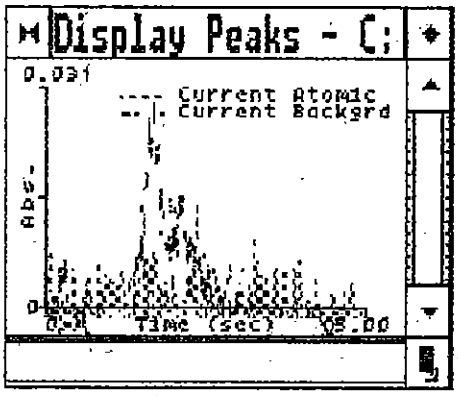
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00033 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 13:52
Peak Area (A-s): -0.004 Peak Height (A): 0.011
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0009 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 13:55
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0006 Corrected Conc (ppm): ----------



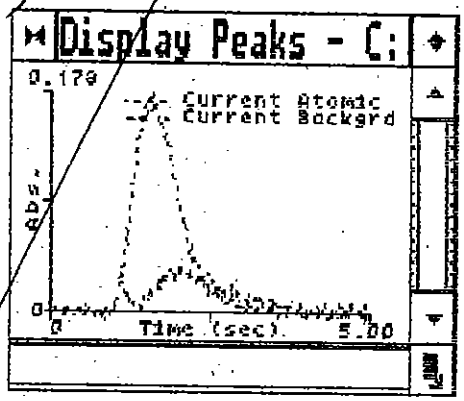
Mean Conc (mg/L): -0.0001 SD: 0.00104 RSD(%): 698.68
Corrected Conc (ppm): ----------

QC sample is within range

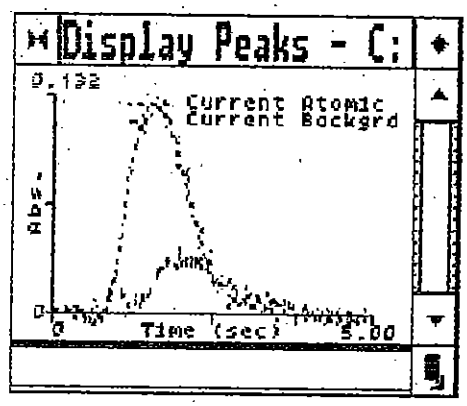
As ID: 3130-2 MSD F=1 Seq. No.: 00034 A/S Pos.: 25 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 25
Replicate 1 Time: 13:58
Peak Area (A-s): 0.149 Peak Height (A): 0.178
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.151
Concentration (mg/L): 0.0631 Corrected Conc (ppm): 0.0631

5/13/99



uL dispensed: 5 from 20, 20 from 25
Replicate 2 Time: 14:01
Peak Area (A-s): 0.141 Peak Height (A): 0.132
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.143
Concentration (mg/L): 0.0597 Corrected Conc (ppm): 0.0597

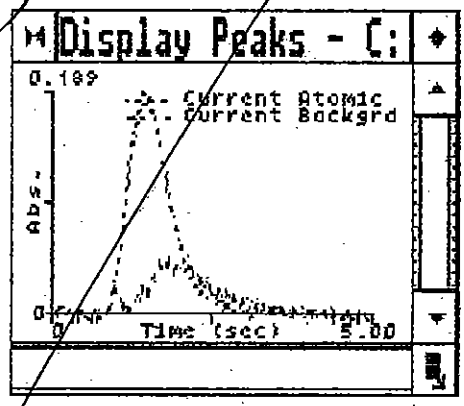


Mean Conc (mg/L): 0.0614 SD: 0.00242 RSD(%): 3.94
Corrected Conc (ppm): 0.0614

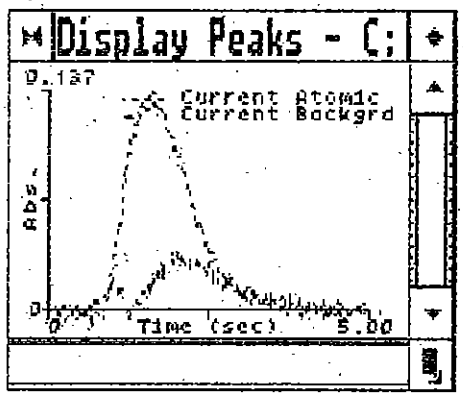
As ID: 3130-2 PS F=1 Seq. No.: 00035 A/S Pos.: 26 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 26
Replicate 1 Time: 14:04
Peak Area (A-s): 0.148 Peak Height (A): 0.189
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.149
Concentration (mg/L): 0.0624 Corrected Conc (ppm): 0.0624

8/13/03



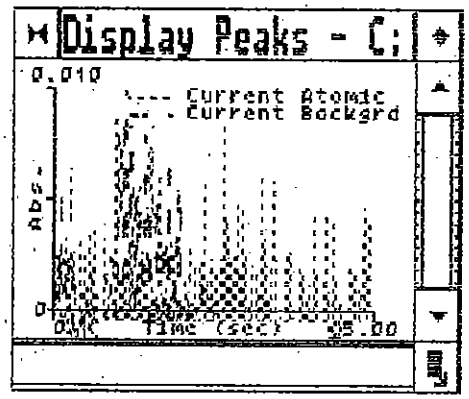
uL dispensed: 5 from 20, 20 from 26
Replicate 2 Time: 14:08
Peak Area (A-s): 0.158 Peak Height (A): 0.137
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.160
Concentration (mg/L): 0.0667 Corrected Conc (ppm): 0.0667



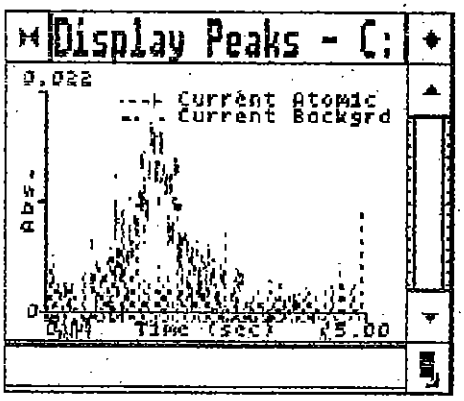
Mean Conc (mg/L): 0.0645 SD: 0.00305 RSD(%): 4.73
Corrected Conc (ppm): 0.0645

As ID: 3130-3 F=1 Seq. No.: 00036 A/S Pos.: 27 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 27
Replicate 1 Time: 14:11
Peak Area (A-s): -0.006 Peak Height (A): 0.009
Background Pk Area (A-s): -0.022 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.005
Concentration (mg/L): -0.0020 Corrected Conc (ppm): -0.0020



uL dispensed: 5 from 20, 20 from 27
Replicate 2 Time: 14:14
Peak Area (A-s): -0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0011 Corrected Conc (ppm): -0.0011

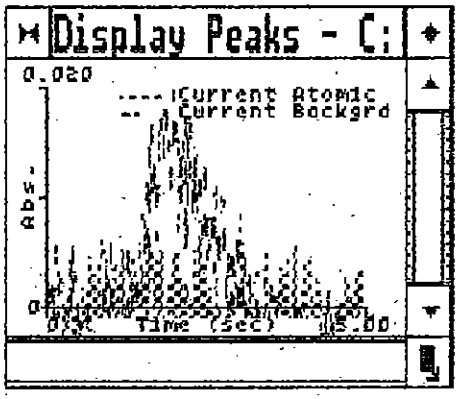


Mean Conc (mg/L): -0.0015 SD: 0.00066 RSD(%): 42.59
Corrected Conc (ppm): -0.0015

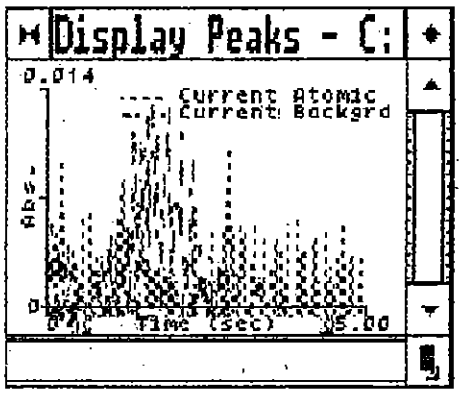
As ID: 3130-4 P=1 Seq. No.: 00037 A/S Pos.: 28 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 28
Replicate 1 Time: 14:17

Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0008 Corrected Conc (ppm): -0.0008



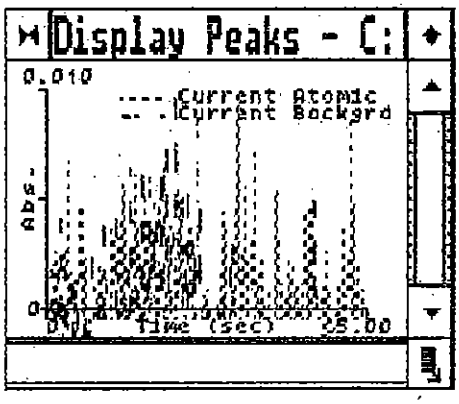
uL dispensed: 5 from 20, 20 from 28
Replicate 2 Time: 14:21
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



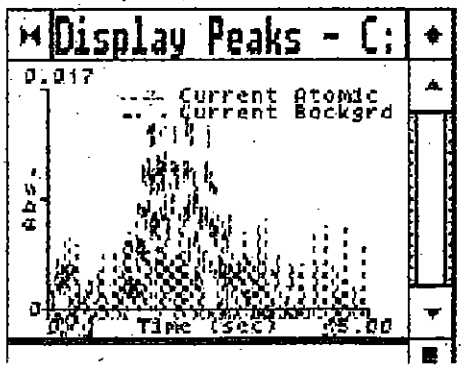
Mean Conc (mg/L): -0.0002 SD: 0.00076 RSD(%): 358.18
Corrected Conc (ppm): -0.0002

As ID: 3130-5 F=1 Seq. No.: 00038 A/S Pos.: 29 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 29
Replicate 1 Time: 14:24
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0007 Corrected Conc (ppm): -0.0007



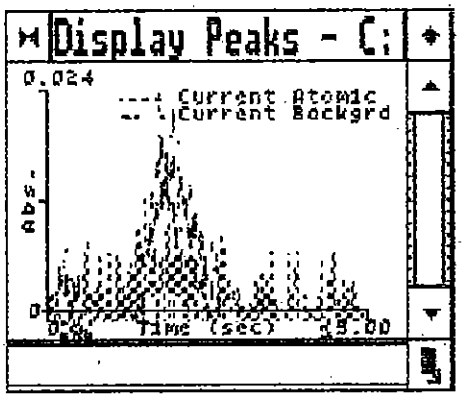
uL dispensed: 5 from 20, 20 from 29
Replicate 2 Time: 14:27
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0001 Corrected Conc (ppm): 0.0001



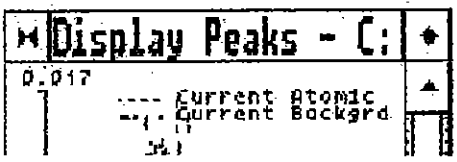
Mean Conc (mg/L): -0.0003 SD: 0.00053 RSD(%): 166.93
Corrected Conc (ppm): -0.0003

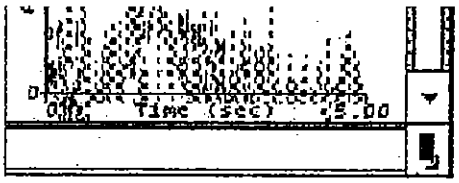
As ID: 3130-6 F=1 Seq. No.: 00039 A/S Pos.: 30 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 30
Replicate 1 Time: 14:31
Peak Area (A-s): 0.000 Peak Height (A): 0.012
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



uL dispensed: 5 from 20, 20 from 30
Replicate 2 Time: 14:34
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0023 Corrected Conc (ppm): 0.0023

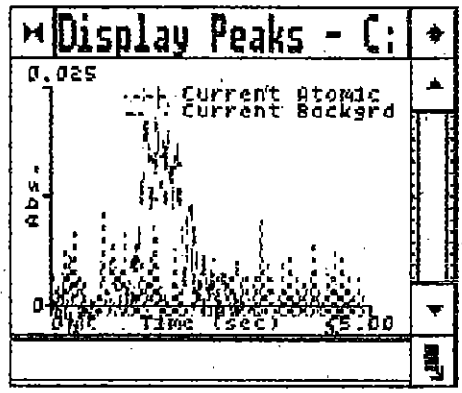




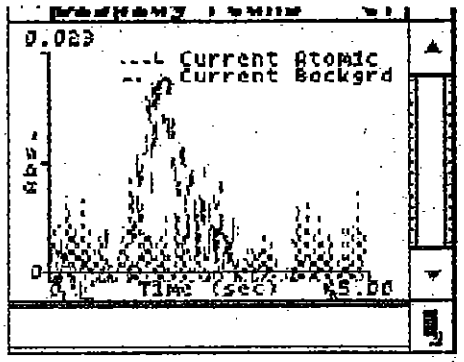
Mean Conc (mg/L): 0.0016 SD: 0.00105 RSD(%): 66.50
Corrected Conc (ppm): 0.0016

As ID: 3102-1 P=1 Seq. No.: 00040 A/S Pos.: 31 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 31
Replicate 1 Time: 14:37
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0004 Corrected Conc (ppm): 0.0004



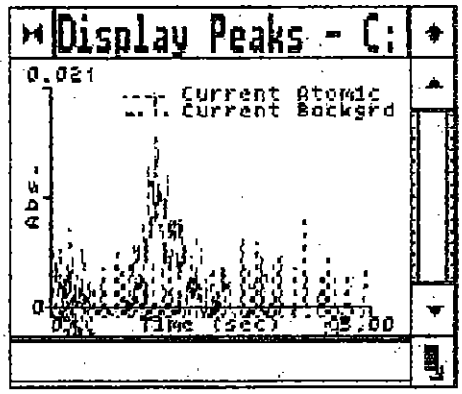
uL dispensed: 5 from 20, 20 from 31
Replicate 2 Time: 14:40
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0000 Corrected Conc (ppm): -0.0000



Mean Conc (mg/L): 0.0002 SD: 0.00027 RSD(%): 160.21
Corrected Conc (ppm): 0.0002

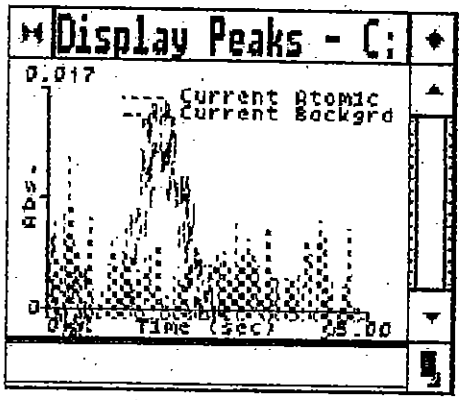
As ID: 3102-2 P=1 Seq. No.: 00041 A/S Pos.: 32 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 32
Replicate 1 Time: 14:43
Peak Area (A-s): -0.007 Peak Height (A): 0.009
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.005
Concentration (mg/L): -0.0022 Corrected Conc (ppm): -0.0022



uL dispensed: 5 from 20, 20 from 32
Replicate 2 Time: 14:47

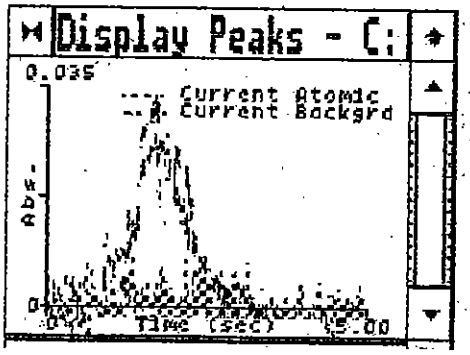
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0001 Corrected Conc (ppm): 0.0001



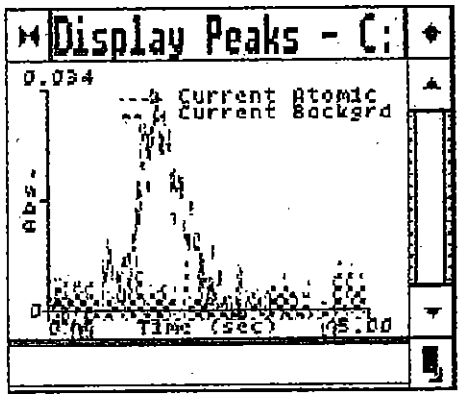
Mean Conc (mg/L): -0.0011 SD: 0.00165 RSD(%): 157.27
Corrected Conc (ppm): -0.0011

As ID: 3102-3 F=1 Seq. No.: 00042 A/S Pos.: 33 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 33
Replicate 1 Time: 14:50
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004



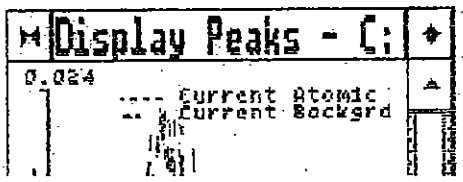
uL dispensed: 5 from 20, 20 from 33
Replicate 2 Time: 14:53
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001

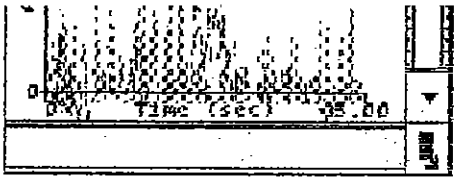


Mean Conc (mg/L): -0.0003 SD: 0.00021 RSD(%): 74.07
Corrected Conc (ppm): -0.0003

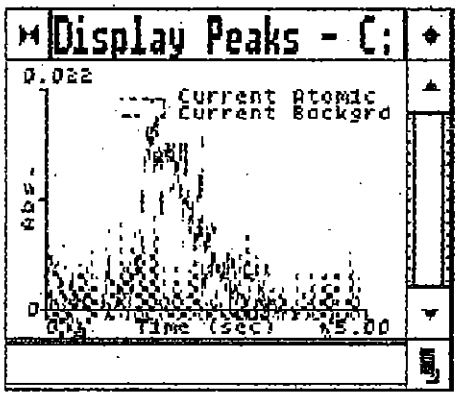
As ID: 3102-4 F=1 Seq. No.: 00043 A/S Pos.: 34 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 34
Replicate 1 Time: 14:56
Peak Area (A-s): -0.002 Peak Height (A): 0.013
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0003 Corrected Conc (ppm): -0.0003





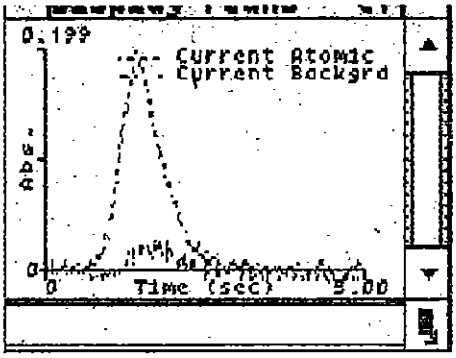
uL dispensed: 5 from 20, 20 from 34
Replicate 2 Time: 14:59
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



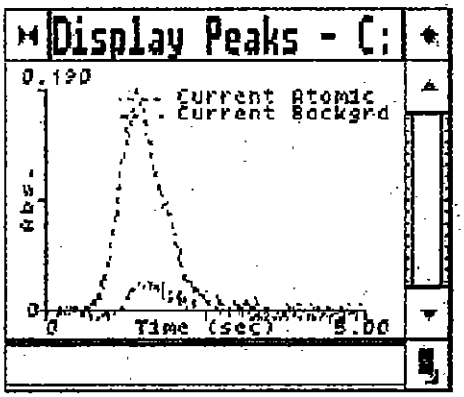
Mean Conc (mg/L): -0.0002 SD: 0.00014 RSD(%): 86.42
Corrected Conc (ppm): -0.0002

As ID: CCV A1474 Seq. No.: 00044 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 15:02
Peak Area (A-s): 0.154 Peak Height (A): 0.199
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.156
Concentration (mg/L): 0.0651 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 15:05
Peak Area (A-s): 0.152 Peak Height (A): 0.190
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.153
Concentration (mg/L): 0.0641 Corrected Conc (ppm): ----------

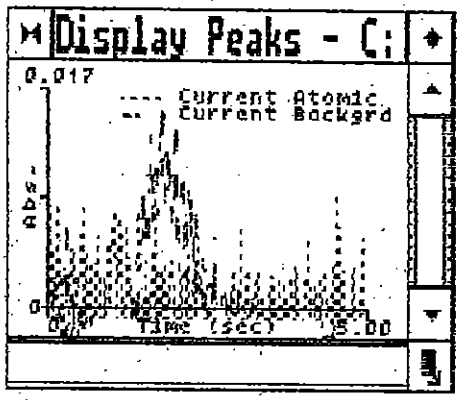


Mean Conc (mg/L): 0.0646 SD: 0.00072 RSD(%): 1.11
Corrected Conc (ppm): ----------

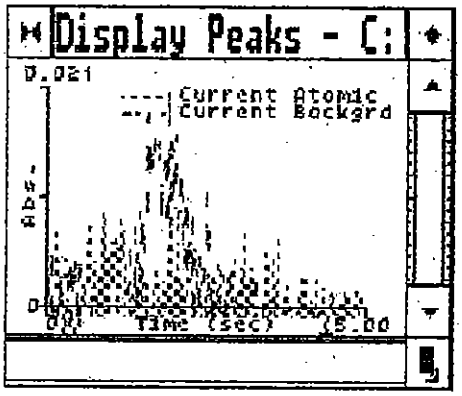
QC sample is out of range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00045 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 15:09
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 15:12
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): ----------



Mean Conc (mg/L): 0.0001 SD: 0.00051 RSD(%): 369.66
Corrected Conc (ppm): ----------

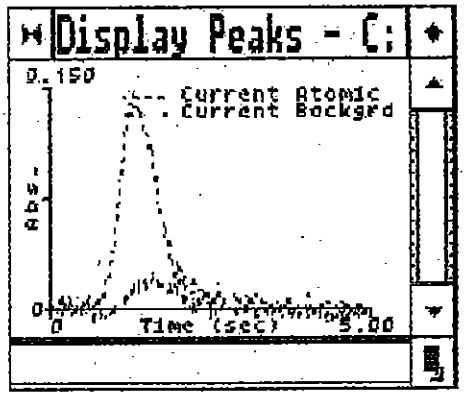
QC sample is within range

As ID: 3102-5 F=1 Seq. No.: 00046 A/S Pos.: 35 Date: 05/13/99

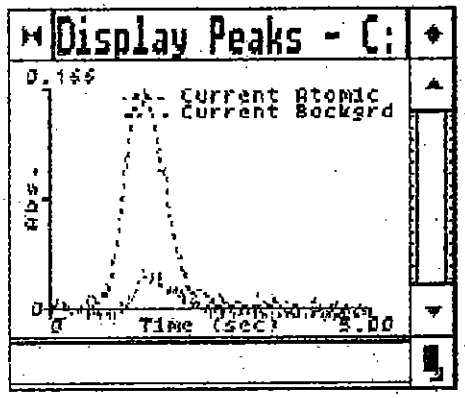
uL dispensed: 5 from 20, 20 from 35

As ID: CCV A1474 Seq. No.: 00047 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 15:18
Peak Area (A-s): 0.113 Peak Height (A): 0.150
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.115
Concentration (mg/L): 0.0480 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 15:21
Peak Area (A-s): 0.128 Peak Height (A): 0.166
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.129
Concentration (mg/L): 0.0540 Corrected Conc (ppm): ----------

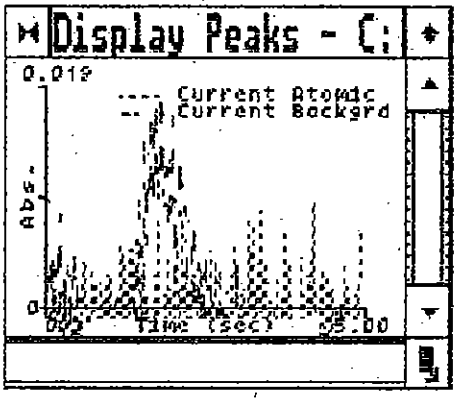


Mean Conc (mg/L): 0.0510 SD: 0.00425 RSD(%): 8.34
Corrected Conc (ppm): ----------

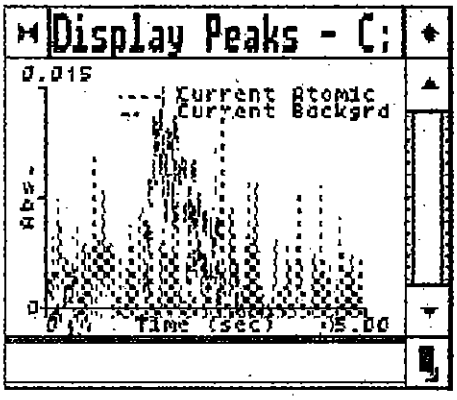
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00048 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 15:24
Peak Area (A-s): -0.005 Peak Height (A): 0.009
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0013 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 15:27
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0017 Corrected Conc (ppm): ----------

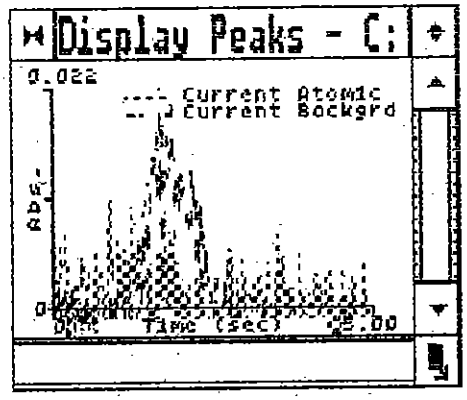


Mean Conc (mg/L): 0.0002 SD: 0.00218 RSD(%): 1102.70
Corrected Conc (ppm): ----------

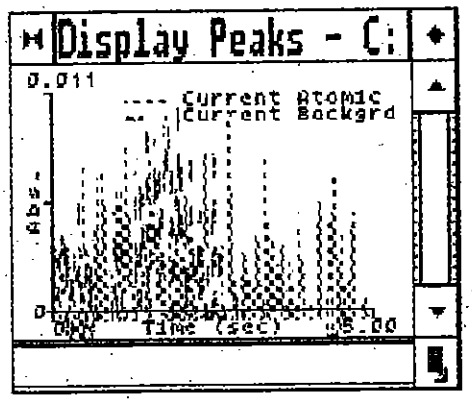
QC sample is within range

As ID: 3102-5 F=1 Seq. No.: 00049 A/S Pos.: 35 Date: 05/13/99

Replicate 1 Time: 15:30
Peak Area (A-s): -0.000 Peak Height (A): 0.011
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



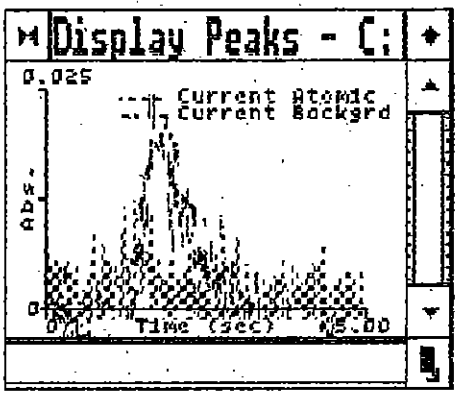
uL dispensed: 5 from 20, 20 from 35
Replicate 2 Time: 15:33
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



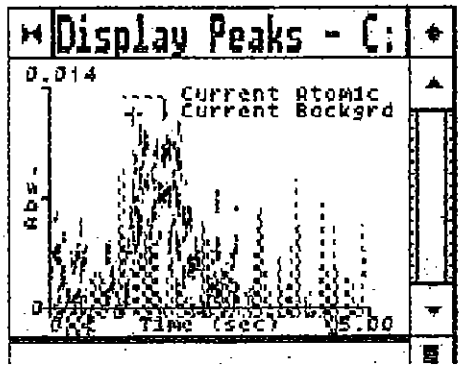
Mean Conc (mg/L): 0.0004 SD: 0.00022 RSD(%): 51.32

As ID: 3102-6 F=1 Seq. No.: 00050 A/S Pos.: 36 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 36
Replicate 1 Time: 15:36
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.008
Concentration (mg/L): 0.0032 Corrected Conc (ppm): 0.0032



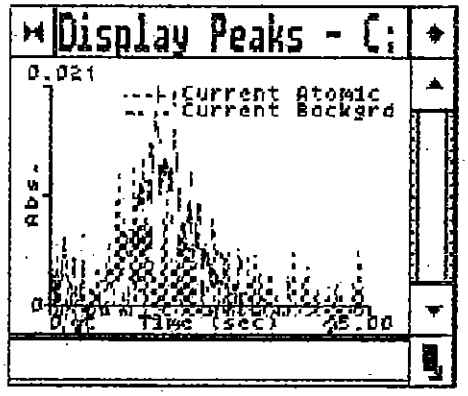
uL dispensed: 5 from 20, 20 from 36
Replicate 2 Time: 15:39
Peak Area (A-s): -0.006 Peak Height (A): 0.010
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0017 Corrected Conc (ppm): -0.0017



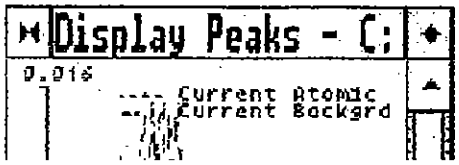
Mean Conc (mg/L): 0.0007 SD: 0.00342 RSD(%): 466.27
Corrected Conc (ppm): 0.0007

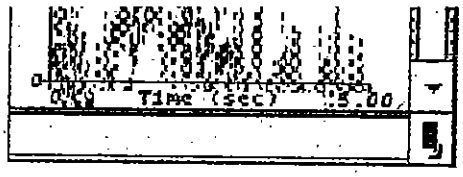
As ID: 3102-7 F=1 Seq. No.: 00051 A/S Pos.: 37 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 37
Replicate 1 Time: 15:42
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006



uL dispensed: 5 from 20, 20 from 37
Replicate 2 Time: 15:46
Peak Area (A-s): 0.004 Peak Height (A): 0.015
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021

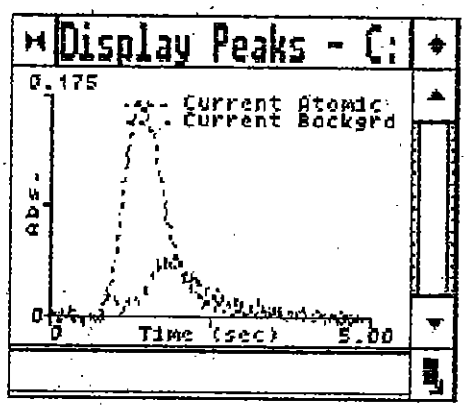




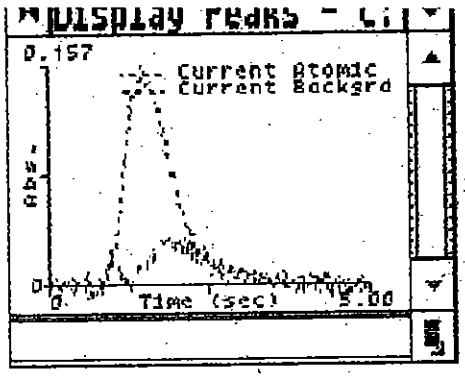
Mean Conc (mg/L): 0.0014 SD: 0.00111 RSD(%): 81.22
Corrected Conc (ppm): 0.0014

As ID: 3130-2 MS F=1 Seq. No.: 00052 A/S Pos.: 24 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 24
Replicate 1 Time: 15:50
Peak Area (A-s): 0.139 Peak Height (A): 0.175
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.140
Concentration (mg/L): 0.0586 Corrected Conc (ppm): 0.0586



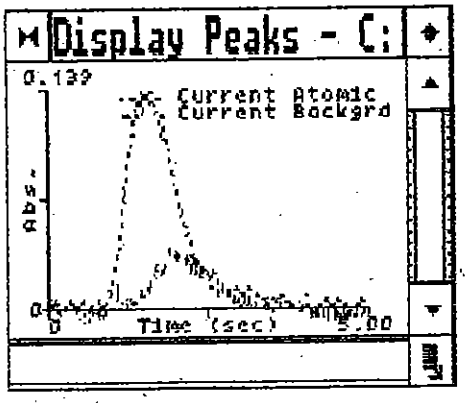
uL dispensed: 5 from 20, 20 from 24
Replicate 2 Time: 15:53
Peak Area (A-s): 0.138 Peak Height (A): 0.157
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.139
Concentration (mg/L): 0.0583 Corrected Conc (ppm): 0.0583



Mean Conc (mg/L): 0.0584 SD: 0.00021 RSD(%): 0.37
Corrected Conc (ppm): 0.0584

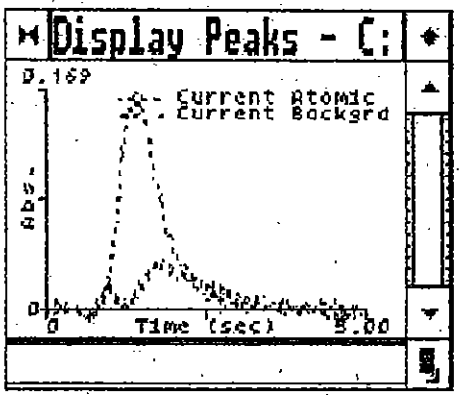
As ID: 3130-2 MSD F=1 Seq. No.: 00053 A/S Pos.: 25 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 25
Replicate 1 Time: 15:56
Peak Area (A-s): 0.134 Peak Height (A): 0.139
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.135
Concentration (mg/L): 0.0566 Corrected Conc (ppm): 0.0566



uL dispensed: 5 from 20, 20 from 25
Replicate 2 Time: 15:59

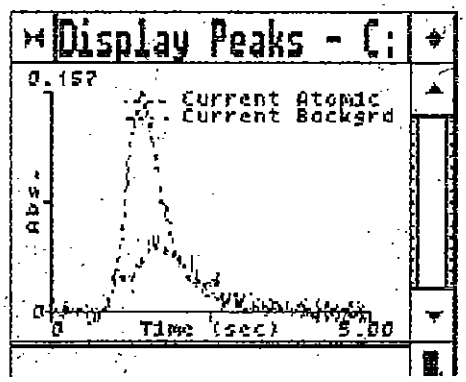
Blank Corrected Pk Area (A-s): 0.134
Concentration (mg/L): 0.0559 Corrected Conc (ppm): 0.0559



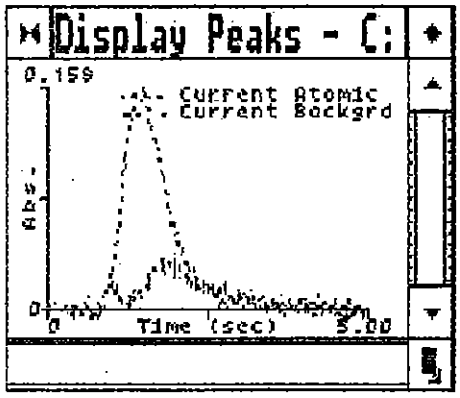
Mean Conc (mg/L): 0.0562 SD: 0.00043 RSD(%): 0.77
Corrected Conc (ppm): 0.0562

As ID: 3130-2 PS F=1 Seq. No.: 00054 A/S Pos.: 26 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 26
Replicate 1 Time: 16:02
Peak Area (A-s): 0.117 Peak Height (A): 0.157
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.119
Concentration (mg/L): 0.0497 Corrected Conc (ppm): 0.0497



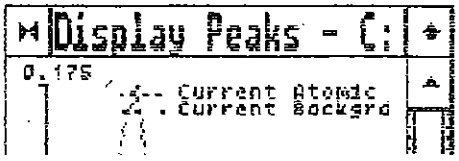
uL dispensed: 5 from 20, 20 from 26
Replicate 2 Time: 16:06
Peak Area (A-s): 0.133 Peak Height (A): 0.158
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.134
Concentration (mg/L): 0.0562 Corrected Conc (ppm): 0.0562

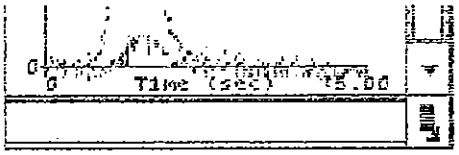


Mean Conc (mg/L): 0.0530 SD: 0.00458 RSD(%): 8.64
Corrected Conc (ppm): 0.0530

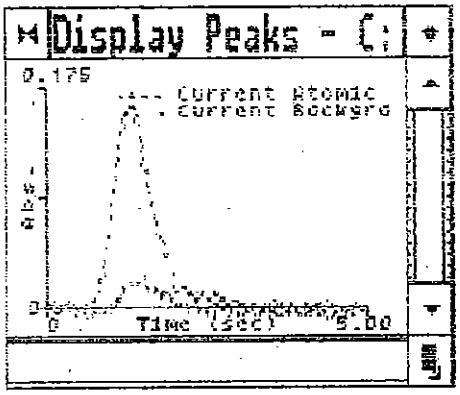
As ID: CCV A1474 Seq. No.: 00055 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 16:09
Peak Area (A-s): 0.118 Peak Height (A): 0.175
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.120
Concentration (mg/L): 0.0500 Corrected Conc (ppm): ----------





uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 16:12
Peak Area (A-s): 0.117 Peak Height (A): 0.175
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.118
Concentration (mg/L): 0.0494 Corrected Conc (ppm): ----------



Mean Conc (mg/L): 0.0497 SD: 0.00044 RSD(%): 0.88
Corrected Conc (ppm): ----------

QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00056 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 16:15
Peak Area (A-s): -0.006 Peak Height (A): 0.008
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0018 Corrected Conc (ppm): ----------

Display Peaks - CA

Display Peaks - CA

Level C Data Package Deliverables

Wet Chemistry

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Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Bicarbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	185	
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	<2	U
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	199	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	198	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	180	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	204	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2784	mg/L	2	181	
03W2784-MB-01	03W2784-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2784	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Carbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U
03W2784-MB-01	03W2784-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2784	mg-$CaCO_3$/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 9040B

Client Name: GEOFON, Inc. Project No: 04-4428.10 Anal. Method 9040B
Project ID: JPL Service ID: 33102 Collected by:

Component Name: pH
CAS No: 10-29-7

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	7.89	
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	7.73	
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	7.56	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	7.56	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	8.03	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	7.88	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	8.00	
03W2755-MB-01	03W2755-MB-01	Water	05/07/03	05/07/03	05/07/03	03W2755	pH unit	0.01	6.83	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 160.1

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	160.1
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Solids, Total Dissolved (TDS)
CAS No: 10-33-3

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	266	
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	<10	U
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	368	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	316	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	248	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	277	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2783	mg/L	10	252	
03W2783-MB-01	03W2783-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2783	mg/L	10	<10	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 314.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	314.0
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Perchlorate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	3.4	B
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	<4	U
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	<4	U
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	2.0	B
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	2.8	B
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	3.6	B
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/09/03	03W2804	μg/L	4	2.2	B
03W2804-MB-01	03W2804-MB-01	Water	05/09/03	05/09/03	05/09/03	03W2804	μg/L	4	<4	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

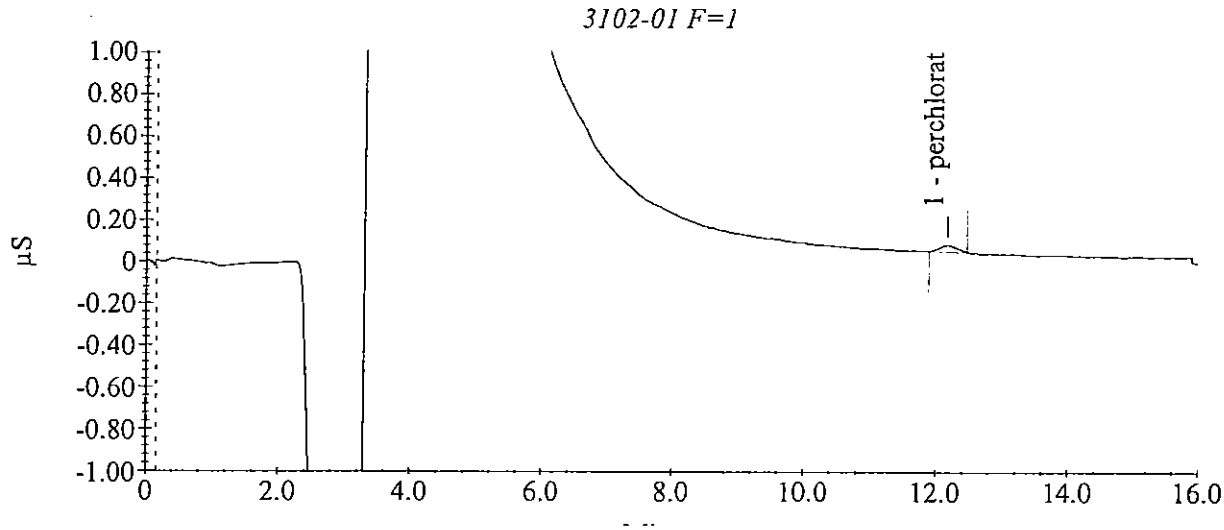
APCL Perchlorate Analysis Report

Sample Name : 3102-01 F=1
Data File Name : C:\DATA\03W2804K\3102-01_026.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 7:45:10 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.18	3.36	5704.50	316.14



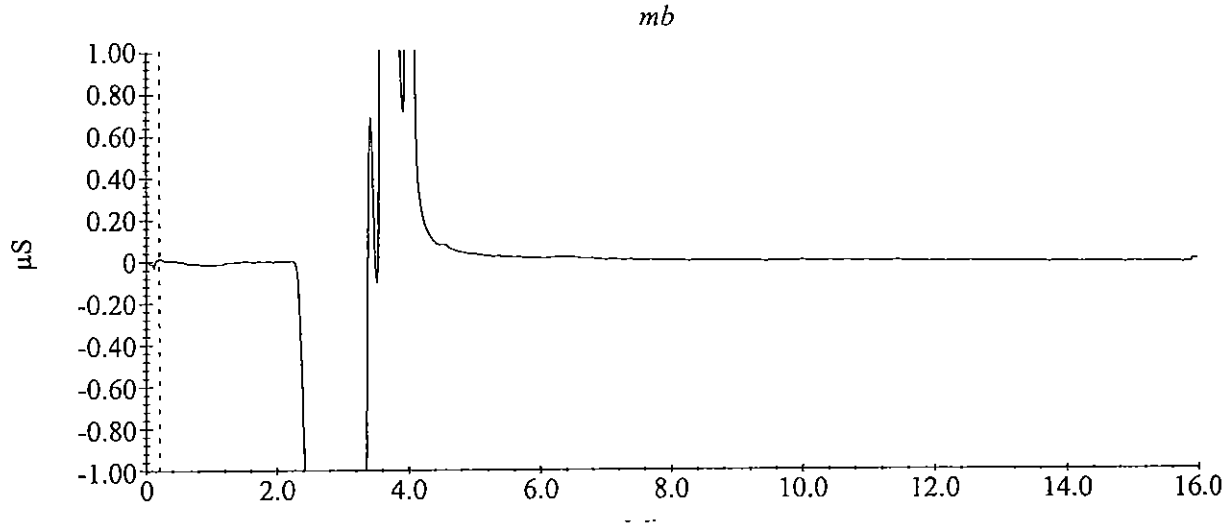
APCL Perchlorate Analysis Report

Sample Name : mb
Data File Name : C:\DATA\03W2804K\W2804K K01_007.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 1:49:51 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



Applied P & Ch Laboratory

Wet Analysis Results for Method 7196

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	7196
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Chromium (VI)
CAS No: 1333-82-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U
03W2757-MB-01	03W2757-MB-01	Water	05/07/03	05/07/03	05/07/03	03W2757	mg/L	0.01	<0.01	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Chloride Cl^-
CAS No: 16887-00-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	5	16.8	
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.25	0.21	B
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.8	30.9	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.5	17.3	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.5	15.7	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.5	14.9	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.5	15.6	
03W2777-MB-01	03W2777-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2777	mg/L	0.2	<0.2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Nitrate as N
CAS No: 14797-55-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	1	<1	U
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.05	0.098	
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.16	1.5	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.1	1.5	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.1	0.53	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.1	1.1	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.1	1.1	
03W2777-MB-01	03W2777-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2777	mg/L	0.04	<0.04	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory

Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	33102	Collected by:	

Component Name: Sulfate SO_4^{--}
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-3102-1	DUPE-6-2Q03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	13	32.6	
03-3102-2	EB-11-5/7/03	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	0.63	0.71	
03-3102-3	MW-12-1	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	2	62.4	
03-3102-4	MW-12-2	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	1.3	39.0	
03-3102-5	MW-12-3	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	1.3	29.8	
03-3102-6	MW-12-4	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	1.3	30.3	
03-3102-7	MW-12-5	Water	05/07/03	05/07/03	05/08/03	03W2777	mg/L	1.3	22.0	
03W2777-MB-01	03W2777-MB-01	Water	05/08/03	05/08/03	05/08/03	03W2777	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

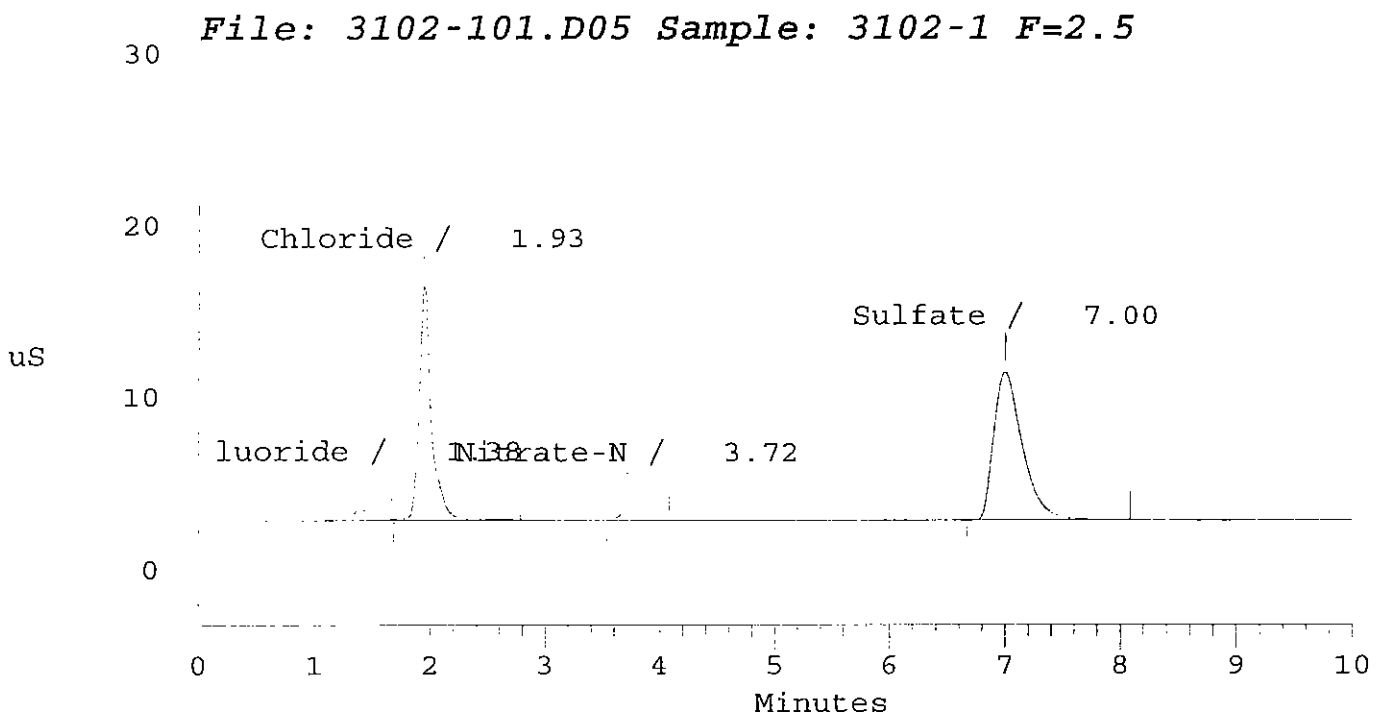
Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

```
==============================================================================
| Sample Name: 3102-1 F=2.5                    Date: 05/08/2003 12:13:27      |
| Data File  : C:\DX\DATA\03W2777\3102-101.D05                                |
| Method     : C:\DX\METHOD\E300-063.MET                                      |
| ACI Address: 1  System: 1  Inject#: 5                    Detector:COND      |
| Analyst    : David          Column: Dionex AS4A-SC                          |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	2.5	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	0.954	23234	277956	2	0.00
2	1.93	Chloride	16.792	436116	3373897	2	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
3	3.72	Nitrate-N	0.533	20856	211872	1	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
4	7.00	Sulfate	32.551	285407	4931159	1	0.00
		Totals	50.830	765613	8794884		



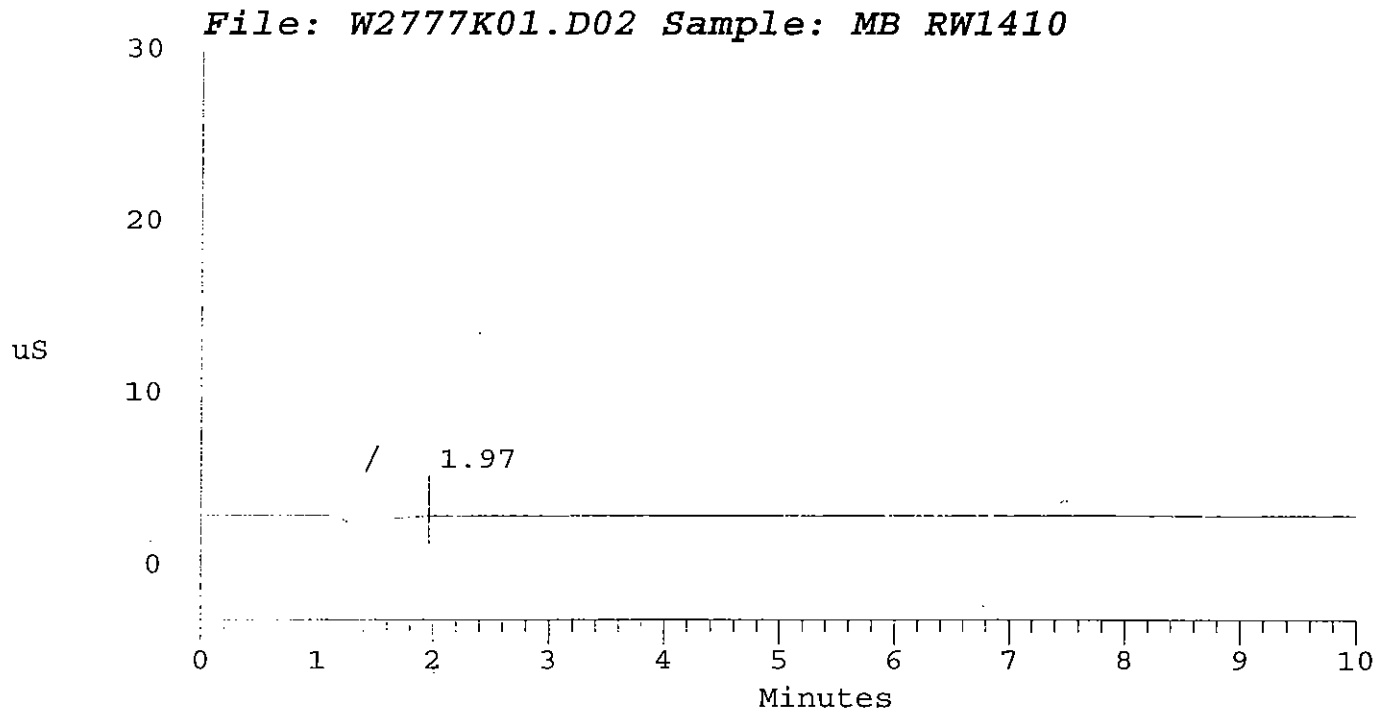
Data Reprocessed On 05/08/2003 11:12:08

Sample Name: MB RW1410 Date: 05/08/2003 11:10:20
Data File : C:\DX\DATA\03W2777\W2777K01.D02
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 2 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		



After
5/8/03 PR
reason 5984 ✓

FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 300.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2777		
LCS Filename:	-	Date Analyzed:	050803	Time Analyzed:	11:25
LCSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	11:38

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CHLORIDE CL^-	mg/L	4.0	0	4.25	106	80-120
NITRATE AS N	mg/L	1.5	0	1.58	105	80-120
SULFATE SO_4^{--}	mg/L	15	0	15.7	105	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHLORIDE CL^-	mg/L	4.0	4.04	101	5	20	80-120
NITRATE AS N	mg/L	1.5	1.58	105	0	20	80-120
SULFATE SO_4^{--}	mg/L	15	17.1	114	8	25	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

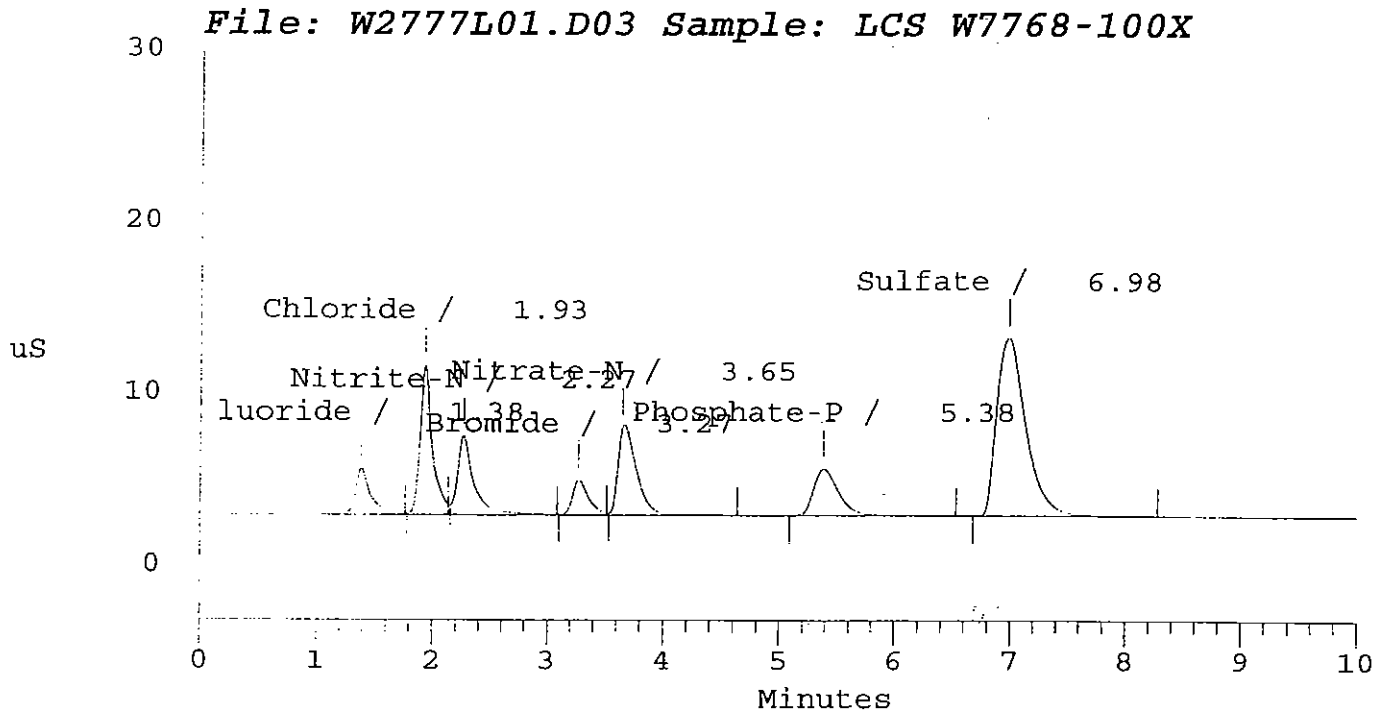
Comments: _____

Sample Name: LCS W7768-100X Date: 05/08/2003 11:25:51
Data File : C:\DX\DATA\03W2777\W2777L01.D03
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 3 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	1.113	89603	809740	2	0.00
2	1.93	Chloride	4.251	288619	2111232	2	0.00
3	2.27	Nitrite-N	1.529	153368	1541954	2	-1.00
4	3.27	Bromide	3.191	67995	650834	2	1.05
5	3.65	Nitrate-N	1.581	170242	1909858	2	0.00
6	5.38	Phosphate-P	3.052	90887	1397101	2	0.00
7	6.98	Sulfate	15.713	346321	5994126	2	0.00
		Totals	30.430	1207034	14414844		

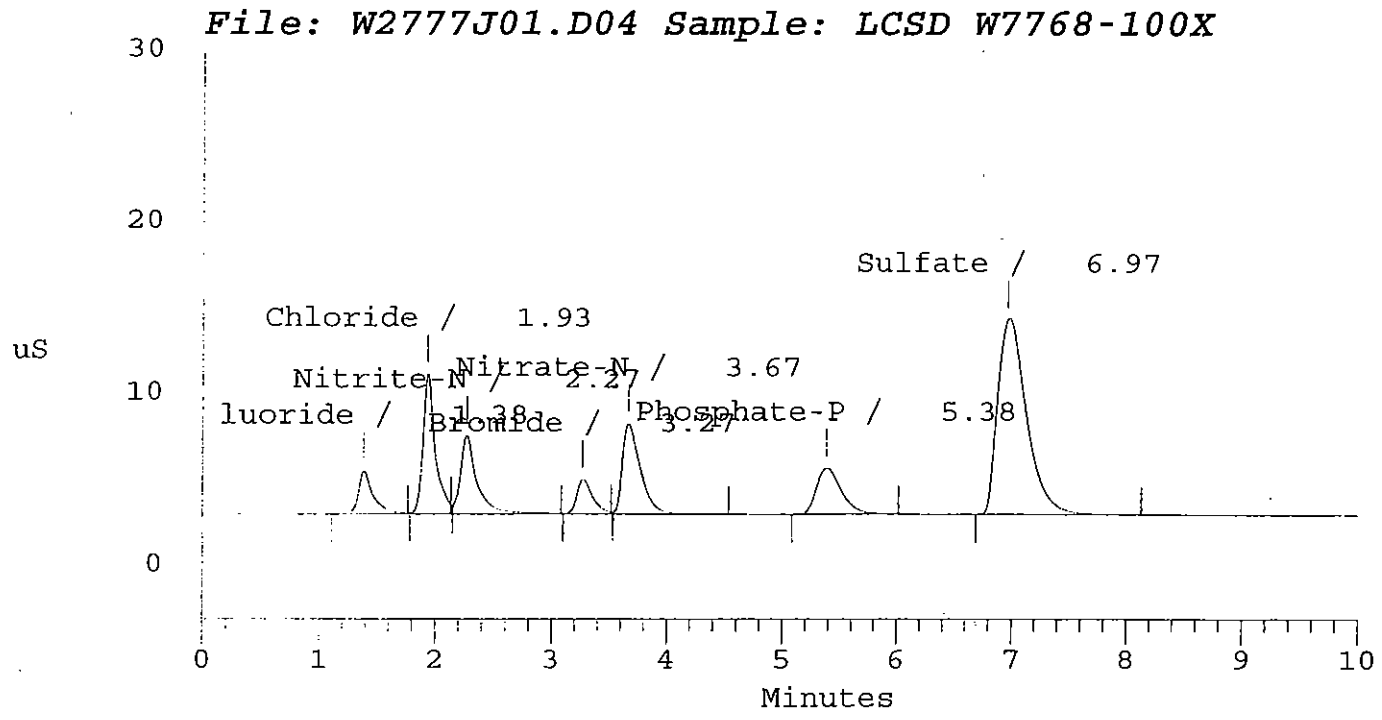


```
==================================================================================
| Sample Name: LCSD W7768-100X                    Date: 05/08/2003 11:38:34       |
| Data File  : C:\DX\DATA\03W2777\W2777J01.D04                                    |
| Method     : C:\DX\METHOD\E300-063.MET                                          |
| ACI Address: 1  System: 1  Inject#: 4                      Detector:COND        |
  \nalyst    : David          Column: Dionex AS4A-SC                              |
==================================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	1.037	83542	754596	2	0.00
2	1.93	Chloride	4.044	271520	2004959	2	0.00
3	2.27	Nitrite-N	1.523	152912	1536029	2	-1.00
4	3.27	Bromide	3.174	67718	647168	2	0.60
5	3.67	Nitrate-N	1.575	175499	1902174	2	0.00
6	5.38	Phosphate-P	2.927	89685	1338033	1	0.00
7	6.97	Sulfate	17.147	378030	6560645	1	0.00
		Totals	31.427	1218907	14743604		



FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 300.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2777		
MS Filename:	-	Date Analyzed:	050803	Time Analyzed:	15:06
MSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	15:18
MS Sample No:	**MW-22-1**	Sample Lab ID:	03-3130-2		

Spiked Components	Unit	Spike Added	Concentration Unspiked	MS	MS Rec% #	QC Limit, % REC
CHLORIDE CL^-	mg/L	100	107	209	102	75-125
NITRATE AS N	mg/L	37.5	9.1	47.7	103	75-125
SULFATE SO_4^{--}	mg/L	375	138	540	107	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	REC
CHLORIDE CL^-	mg/L	100	211	104	2	20	75-125
NITRATE AS N	mg/L	37.5	47.7	103	0	20	75-125
SULFATE SO_4^{--}	mg/L	375	532	105	2	25	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

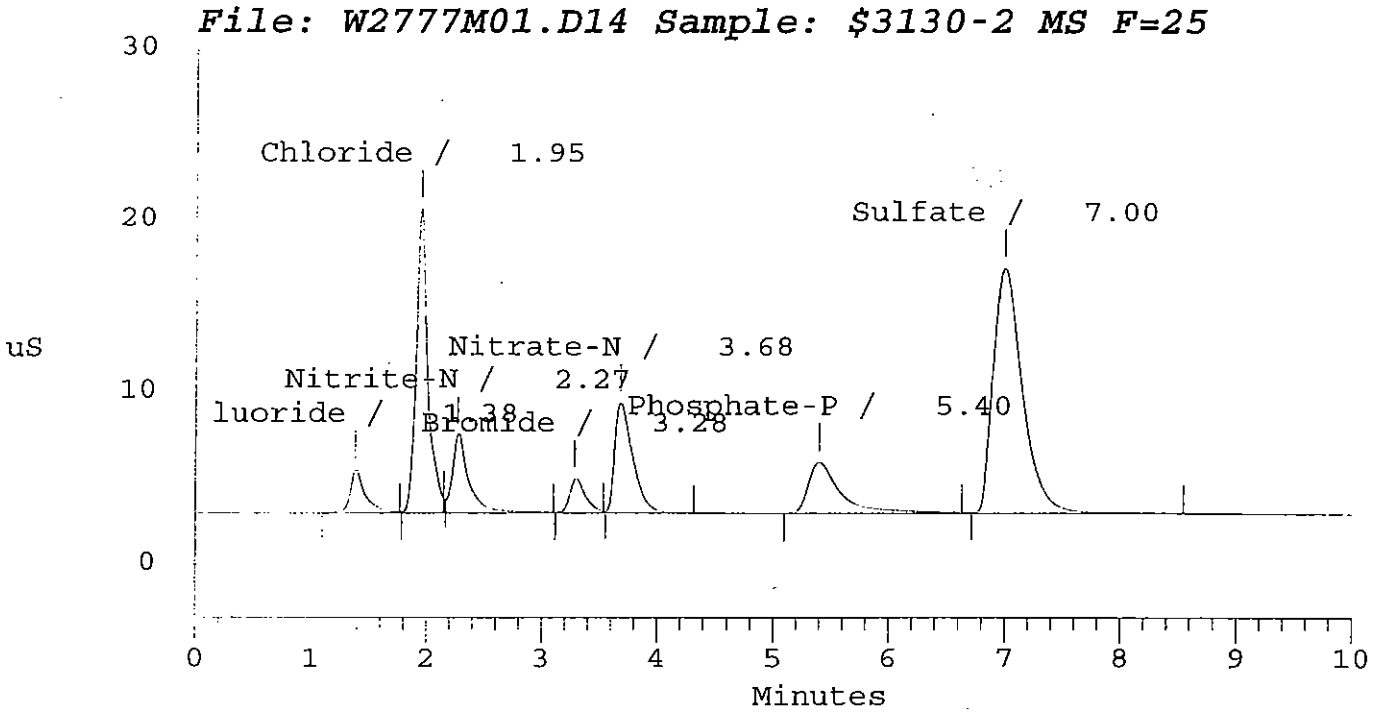
Comments: _____

Sample Name: $3130-2 MS F=25 Date: 05/08/2003 15:06:02
Data File : C:\DX\DATA\03W2777\W2777M01.D14
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 14 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	25	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	26.269	83106	764264	2	0.00
2	1.95	Chloride	208.769	588714	4210509	2	0.00
3	2.27	Nitrite-N	38.269	149536	1543638	2	-1.84
4	3.28	Bromide	77.579	64757	632606	2	0.65
5	3.68	Nitrate-N	47.652	212524	2313440	2	0.00
6	5.40	Phosphate-P	106.634	98238	1968875	2	0.00
7	7.00	Sulfate	540.272	474157	8323179	2	0.00
		Totals	1045.445	1671033	19756510		

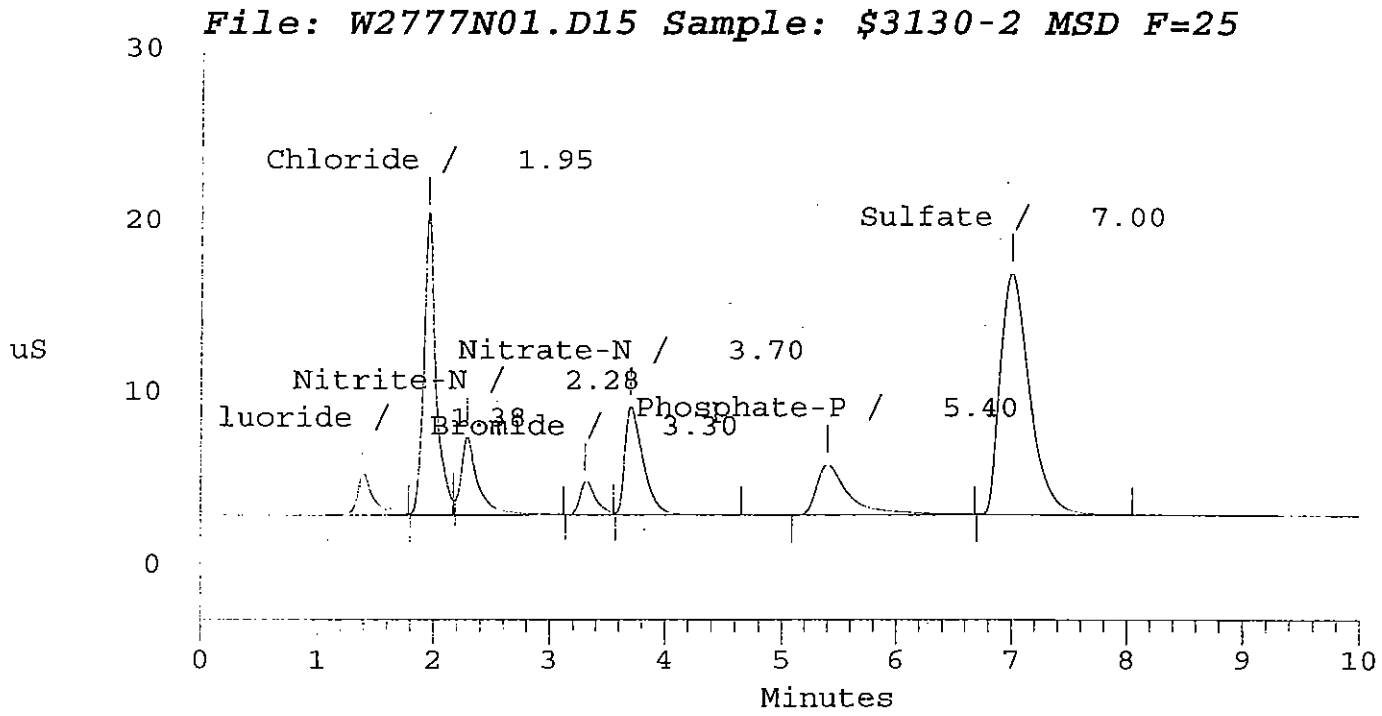


Sample Name: $3130-2 MSD F=25 Date: 05/08/2003 15:18:45
Data File : C:\DX\DATA\03W2777\W2777N01.D15
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 15 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	25	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	26.536	79156	772023	2	0.00
2	1.95	Chloride	210.658	579795	4249198	2	0.00
3	2.28	Nitrite-N	38.384	150790	1548331	2	-1.12
4	3.30	Bromide	77.474	63376	631737	2	0.71
5	3.70	Nitrate-N	47.718	208908	2316713	2	0.00
6	5.40	Phosphate-P	105.268	97613	1943121	2	0.00
7	7.00	Sulfate	531.876	467698	8190556	2	0.00
		Totals	1037.913	1647337	19651678		



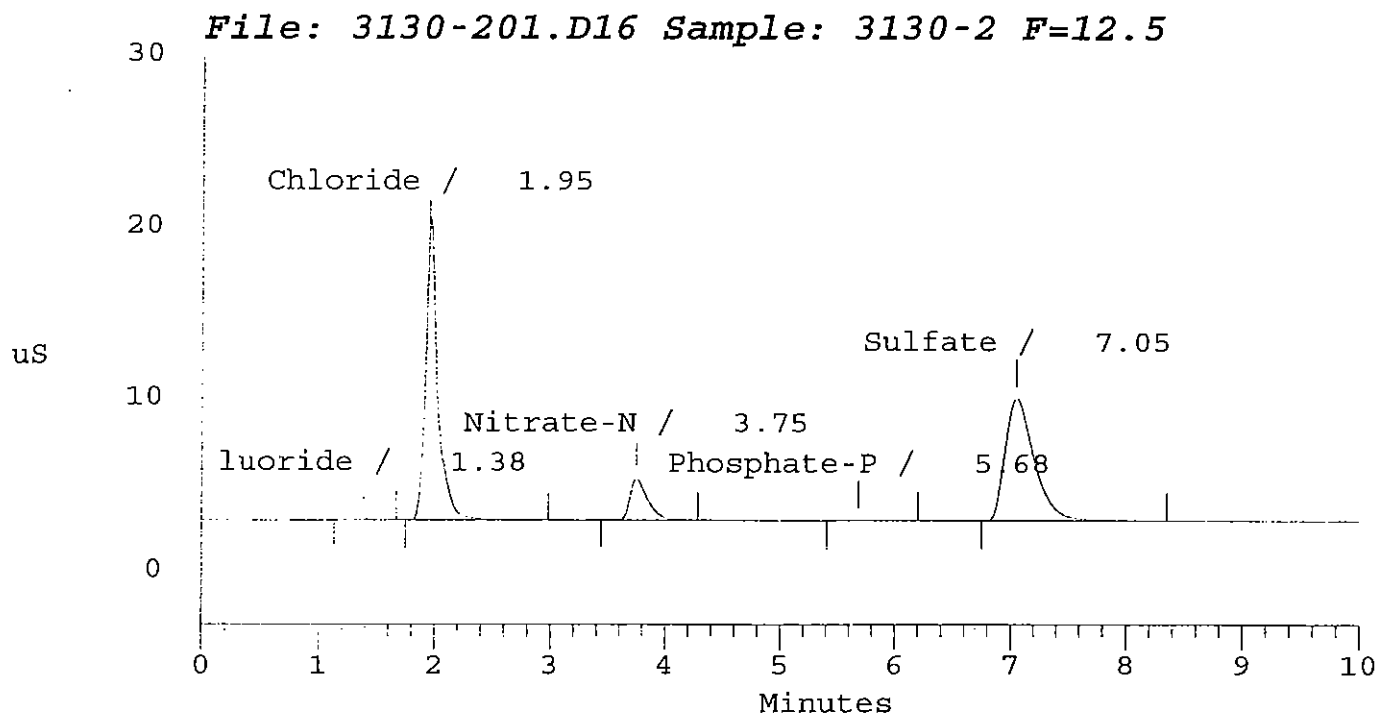
Data Reprocessed On 05/08/2003 16:45:21

Sample Name: 3130-2 F=12.5 Date: 05/08/2003 15:31:27
Data File : C:\DX\DATA\03W2777\3130-201.D16
Method : C:\DX\METHOD\E300-063.MET
\CI Address: 1 System: 1 Inject#: 16 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	12.5	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	1.227	3573	72011	2	0.00
2	1.95	Chloride	106.704	548799	4305531	2	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
3	3.75	Nitrate-N	9.123	79213	853300	1	0.00
4	5.68	Phosphate-P	1.645	781	21058	1	0.00
5	7.05	Sulfate	138.322	237031	4159294	1	0.00
		Totals	257.021	869397	9411193		



FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2804		
LCS Filename:	-	Date Analyzed:	050903	Time Analyzed:	12:52
LCSD Filename:	-	Date Analyzed:	–	Time Analyzed:	–

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	25	0	24.7	99	80-120
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

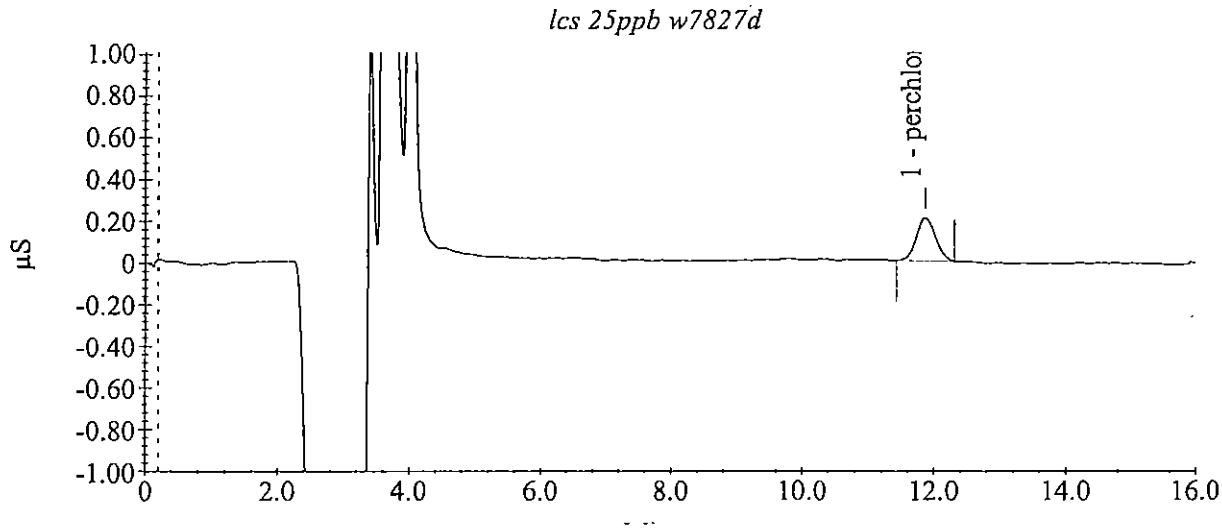
APCL Perchlorate Analysis Report

Sample Name : lcs 25ppb w7827d
Data File Name : C:\DATA\03W2804K\W2804K L01_004.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 12:52:13 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	11.87	24.65	41832.10	2071.15



FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 314.0

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2804		
MS Filename:	-	Date Analyzed:	050903	Time Analyzed:	17:15
MSD Filename:	-	Date Analyzed:	050903	Time Analyzed:	17:34
MS Sample No:	**MW-11-3**	Sample Lab ID:	03-3082-4		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
PERCHLORATE	μg/L	50	0	51.3	103	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
PERCHLORATE	μg/L	50	51.6	103	0	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

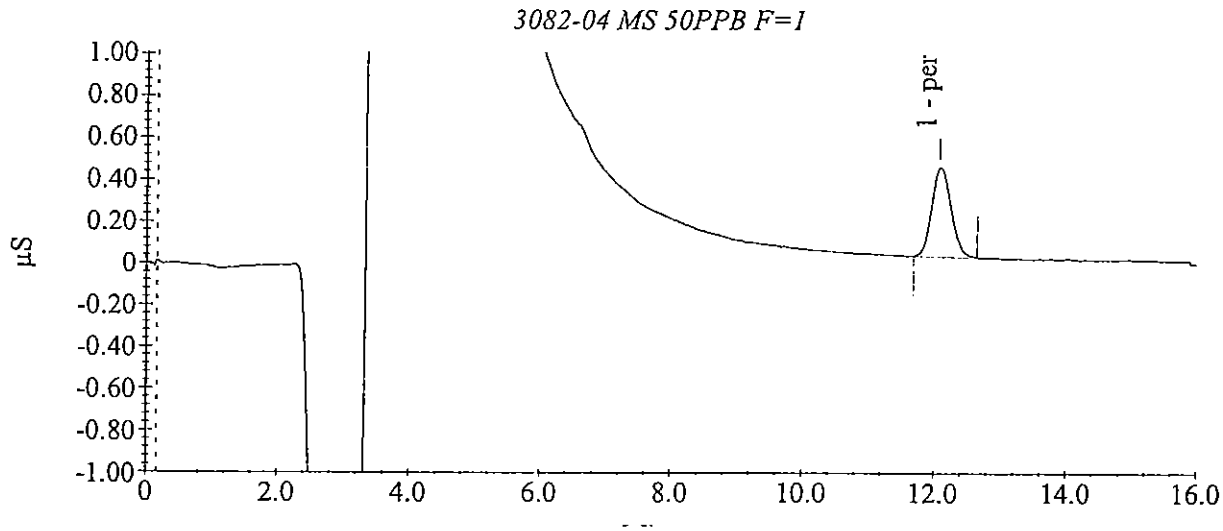
APCL Perchlorate Analysis Report

Sample Name : 3082-04 MS 50PPB F=1
Data File Name : C:\DATA\03W2804K\W2804K M01_018.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 5:15:41 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.08	51.33	87112.90	4245.56



Rec 102.66%

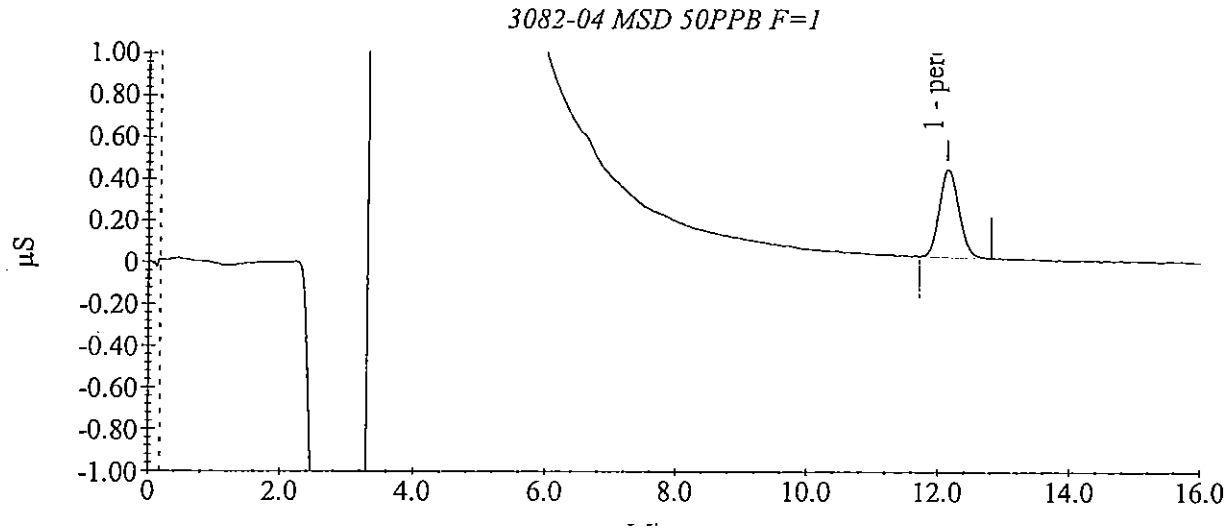
APCL Perchlorate Analysis Report

Sample Name : 3082-04 MSD 50PPB F=1
Data File Name : C:\DATA\03W2804K\W2804K N01_019.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 5:34:14 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.13	51.59	87548.60	4198.47



Rec 103.18%

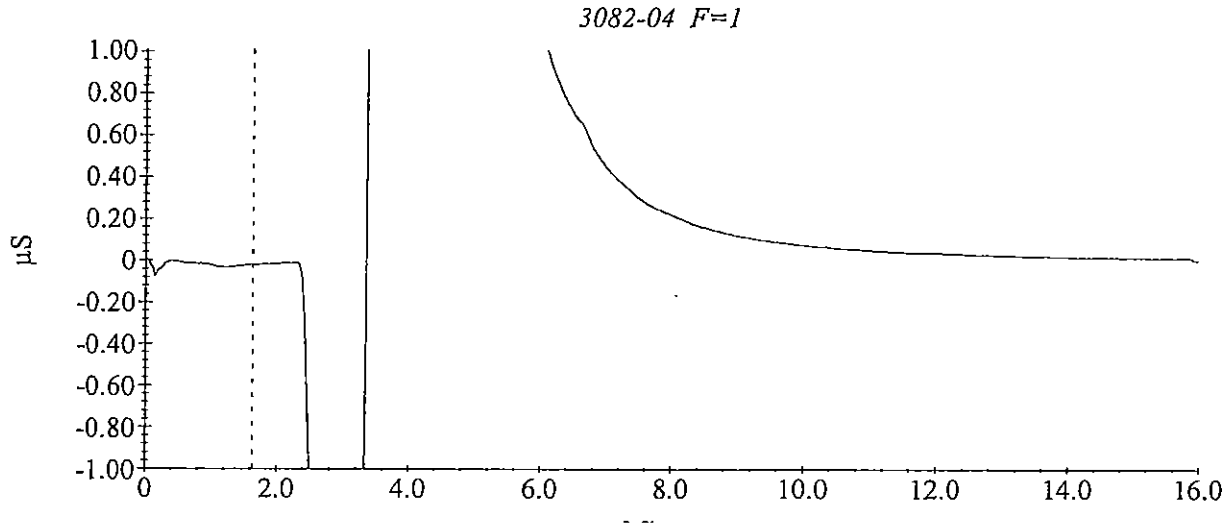
APCL Perchlorate Analysis Report

Sample Name : 3082-04 F=1
Data File Name : C:\DATA\03W2804K\3082-04_016.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 4:38:16 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 160.1

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2783		
LCS Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:54
LCSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:54

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	0	412	103	88-108
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	390	98	5	20	88-108
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 160.1

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2783		
MS Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:54
MSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:54
MS Sample No:	**MW-11-3**	Sample Lab ID:	03-3082-4		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	222	631	102	80-119
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
SOLIDS, TOTAL DISSOLVED (TDS)	mg/L	400	619	99	3	20	80-119
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7196

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2757		
LCS Filename:	-	Date Analyzed:	050703	Time Analyzed:	13:44
LCSD Filename:	-	Date Analyzed:	050703	Time Analyzed:	13:44

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0	0.267	107	80-115
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0.270	108	1	19	80-115
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7196

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03W2757		
MS Filename:	-	Date Analyzed:	050703	Time Analyzed:	13:44
MSD Filename:	-	Date Analyzed:	050703	Time Analyzed:	13:44
MS Sample No:	**DUPE-6-2Q03**	Sample Lab ID:	03-3102-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0	0.227	91	78-115
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	mg/L	0.25	0.233	93	2	19	78-115
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

Wet Chemistry QC Report B
Duplicate Results

Matrix: Water

APCL Service ID: 03-3102

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Bicarbonate	03W2784	5/8/03	DUPE-6-2Q03	o	185	187	1	20
Carbonate	03W2784	5/8/03	DUPE-6-2Q03	mg-$CaCO_3$/L	ND	ND	NC	20
pH	03W2755	5/7/03	DUPE-6-2Q03	pH unit	7.89	7.82	1	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

6A

INITIAL CALIBRATION DATA

Lab Name: Applied P & Ch Lab Contract: _____

Analysis: Chromium (VI) Calibration Date: 1/29/03

Concentration (mg/L)	0.000	0.0125	0.050	0.125	0.250	0.50
Absorbance	0.000	0.006	0.041	0.109	0.214	0.415

A= 0.000 + 0.836C

A=Absorbance

C=Concentration (mg/L)

r= 0.9997

DIONEX METHOD PARAMETERS - E300-063.MET

Method Comment: APCL EPA 300 ANALYSIS DX-100
Column ID: Dionex AS4A-SC
Analyst ID: David

System Parameters

System Name: DX-100

Number of Detectors	1
Run Time (minutes)	10.00
Sampling Rate (seconds)	0.20
Detector 1 Type	COND
Detector 1 real time plot scale maximum (uS)	30.000
minimum	-3.000
Detector 1 Output Equivalent to 1 Volt (in uS)	30.00
Detector 1 ACI Analog Input Connection	DET1
Save Data File	Yes

Data File Name: C:\DX\DATA\03W1991\W1991Q01.D10

-- DETECTOR 1 PARAMETERS --

Report Options

Create ASCII Report File	No
Print Report	Yes
Print All Components	Yes
Print Components Found	No
Print Missing Components	No
Print All Peaks	No
Print Unknown Peaks	No
Print Chromatogram	Yes
Autoscale Chromatogram Maximum	No
Autoscale Chromatogram Minimum	No
Fill Peaks with Color	No
Draw Grid Lines on Chromatogram	No
Show Component Fraction Numbers	No
Label with Peak Number	No
Label with Retention Times on Chromatogram	Yes
Label with Component Name	Yes

Format File Name: C:\DX\METHOD\DEFAULT.PRF

Integration Parameters

Starting Peak Width (seconds)	10.0
Peak Threshold	2.000
Peak Area Reject	1000
Area Reject for Reference Peaks	1000

Data Events

Time	Description
0.13	Start peak detection
10.00	Stop peak detection

Calibration Parameters

Number Of Levels for Calibration	6
Force Calibration Curve Through Origin	No
Calibration Fit Type	Linear
Replace Or Average Calibrations	Replace
External or Internal Calibration	External
Calculate Unknowns by Area or Height	Area
Default Sample Volume	1.0
Default Dilution Factor	1.0
Default Response Factor for Unknown Peaks	0.0
Calibration Standard Volume	1.0
Internal Standard Amount in Samples	1.0
Amount Units	ppm

Component # 4 Bromide Retention Time 3.45
Reference Comp. Nitrate-N Window Size 0.20 min.
Amount = K0 + K1*Area
K0 = 4.58974E-002
K1 = 4.83279E-006

Level	Amount	Area	Height
1	7.50000E-002	13830	1488
2	1.50000E+000	298206	30100
3	3.00000E+000	591234	61776
4	6.00000E+000	1219933	128845
5	7.50000E+000	1559887	166594
6	0.00000E+000	0	0

Component # 5 Nitrate-N Retention Time 3.87
Reference Comp. Nitrate-N Window Size 0.25 min.
Amount = K0 + K1*Area
K0 = 4.24689E-002
K1 = 8.05553E-007

Level	Amount	Area	Height
1	3.75000E-002	40157	3802
2	7.50000E-001	849179	77129
3	1.50000E+000	1713421	152776
4	3.00000E+000	3610927	313707
5	3.75000E+000	4688990	396441
6	0.00000E+000	0	0

Component # 6 Phosphate-P Retention Time 6.38
Reference Comp. Phosphate-P Window Size 0.60 min.
Amount = K0 + K1*Area
K0 = 8.68926E-002
K1 = 2.12227E-006

Level	Amount	Area	Height
1	7.50000E-002	24783	1450
2	1.50000E+000	642376	38579
3	3.00000E+000	1301126	79971
4	6.00000E+000	2756481	168994
5	7.50000E+000	3546397	217521
6	0.00000E+000	0	0

Component Table -- Last Modified: 17:42 on Fri, 21 Mar 2003

Component # 1 Fluoride Retention Time 1.32
Reference Comp. Fluoride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = -9.62851E-004
K1 = 1.37614E-006

Level	Amount	Area	Height
1	2.50000E-002	28534	2732
2	5.00000E-001	373164	44629
3	1.00000E+000	707646	82595
4	2.00000E+000	1435865	173007
5	2.50000E+000	1837162	220914
6	0.00000E+000	0	0

Component # 2 Chloride Retention Time 1.97
Reference Comp. Chloride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = 1.28188E-001
K1 = 1.95287E-006

Level	Amount	Area	Height
1	1.00000E-001	51206	7044
2	2.00000E+000	909455	126181
3	4.00000E+000	1856586	261681
4	8.00000E+000	3987563	585791
5	1.00000E+001	5142155	754321
6	0.00000E+000	0	0

Component # 3 Nitrite-N Retention Time 2.33
Reference Comp. Chloride Window Size 0.15 min.
Amount = K0 + K1*Area
K0 = 2.38085E-002
K1 = 9.76240E-007

Level	Amount	Area	Height
1	3.75000E-002	30884	3582
2	7.50000E-001	734006	79701
3	1.50000E+000	1468106	162005
4	3.00000E+000	3021523	336616
5	3.75000E+000	3856614	429219
6	0.00000E+000	0	0

Component # 7 Sulfate Retention Time 7.92
Reference Comp. Sulfate Window Size 0.90 min.
Amount = K0 + K1*Area
K0 = 5.32283E-001
K1 = 2.53252E-006

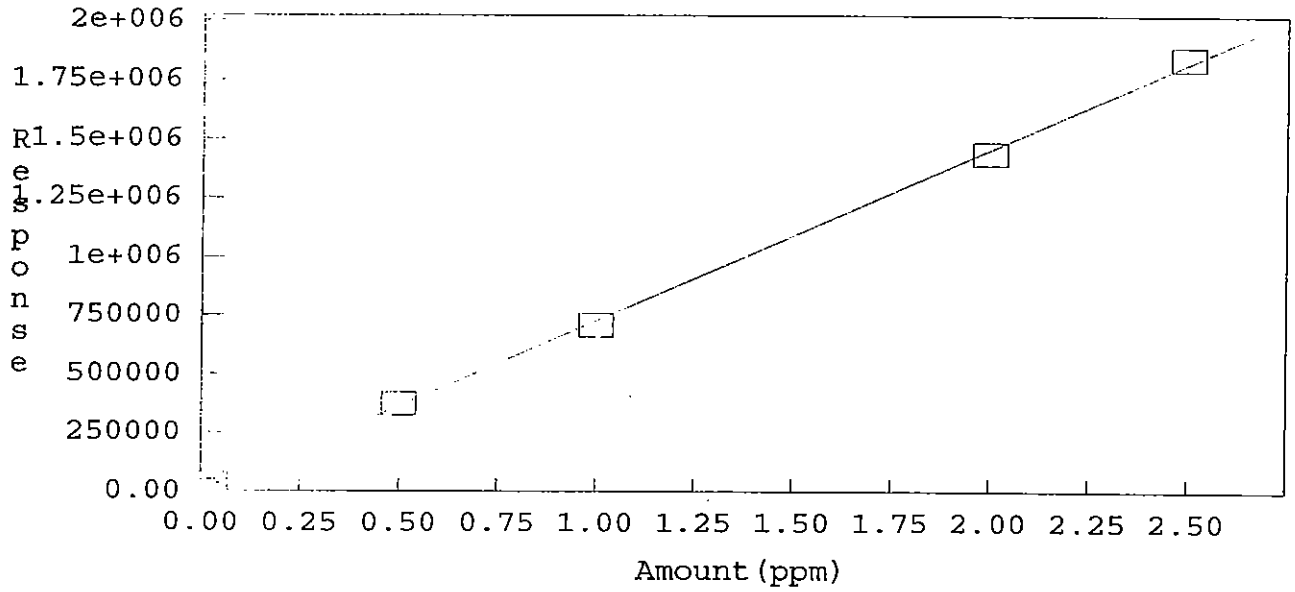
Level	Amount	Area	Height
1	3.76000E-001	129999	6524
2	7.50000E+000	2598757	138579
3	1.50000E+001	5330209	287851
4	3.00000E+001	11507107	615917
5	3.75000E+001	14859049	776426
6	0.00000E+000	0	0

Timed Events File: C:\DX\METHOD\W761CAL.TE

Step	Time	Description
Init		ACI Autosmp OFF
Init		ACI pump st ON
Init		ACI inject OFF
Init		ACI auto zer OFF
Init		ACI TTL 1 OFF
Init		ACI TTL 2 OFF
Init		ACI TTL 3 OFF
Init		ACI TTL 4 OFF
Init		ACI OFF
Init		ACI OFF
1	0.0	ACI Autosmp ON
1	0.0	ACI auto zer ON
2	2.5	ACI Autosmp OFF
2	2.5	ACI inject ON
2	2.5	ACI TTL 1 ON
2	2.5	Start Sampling

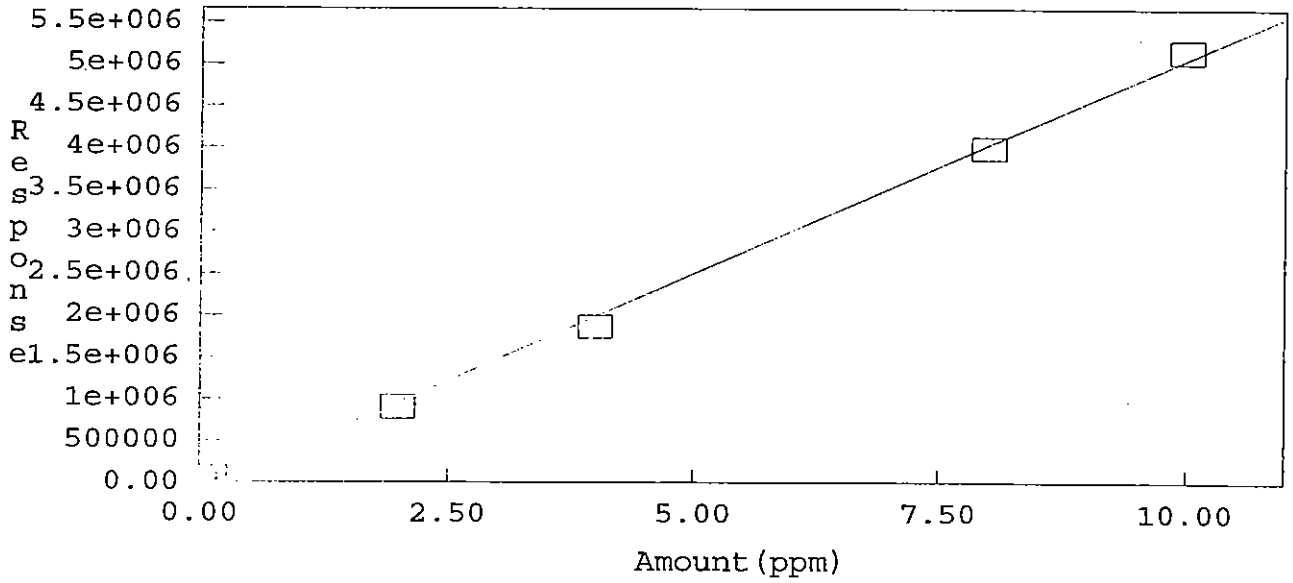
Method: E300-063.MET - Last Updated: 17:42 on Fri, 21 Mar 2003

Component: Fluoride
Fit Type: Linear
r^2 = 0.999552
Amt = Resp * 1.376e-006 + -0.000962
Resp = Amt * 7.267e+005 + 699.7
Standardization: External
Calibration: Area



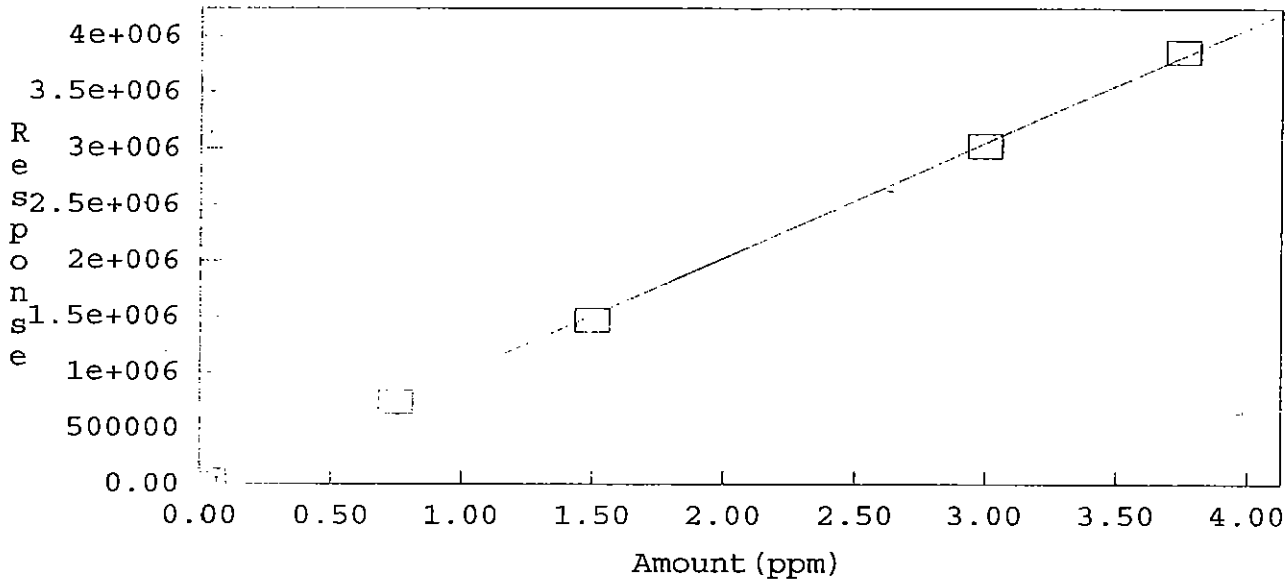
Method: C:\DX\METHOD\E300-063.MET

Component: Chloride
Fit Type: Linear
r^2 = 0.998409
Amt = Resp * 1.953e-006 + 0.1282
Resp = Amt * 5.121e+005 + -6.564e+00
Standardization: External
Calibration: Area



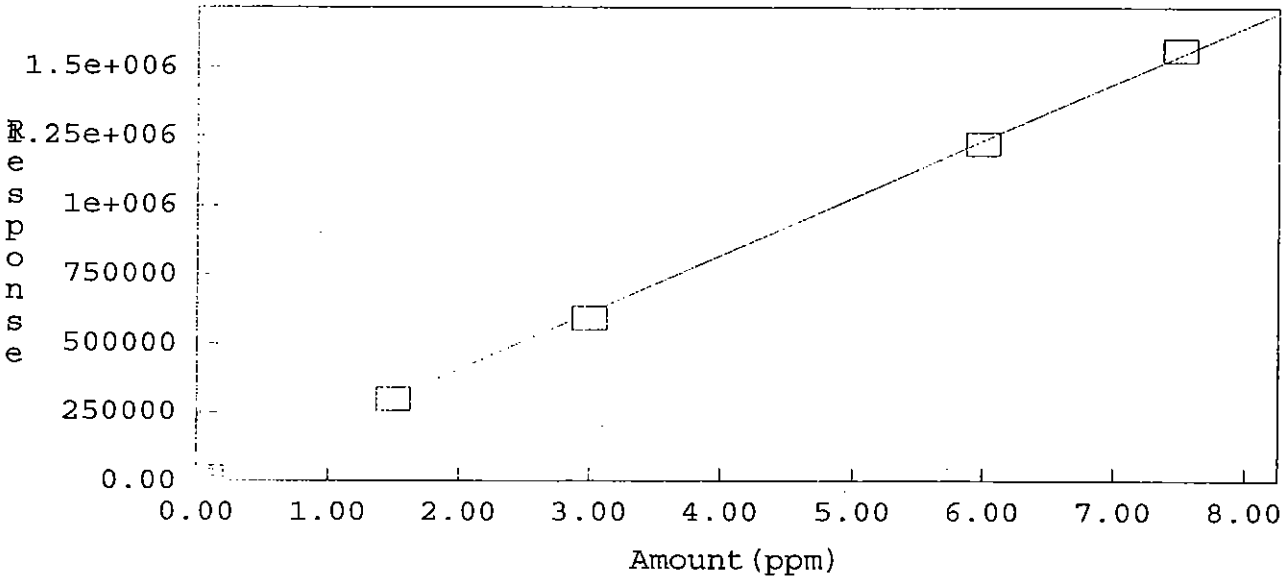
Method: C:\DX\METHOD\E300-063.MET

Component: Nitrite-N
Fit Type: Linear
r^2 = 0.999594
Amt = Resp * 9.762e-007 + 0.02381
Resp = Amt * 1.024e+006 + -2.439e+00
Standardization: External
Calibration: Area



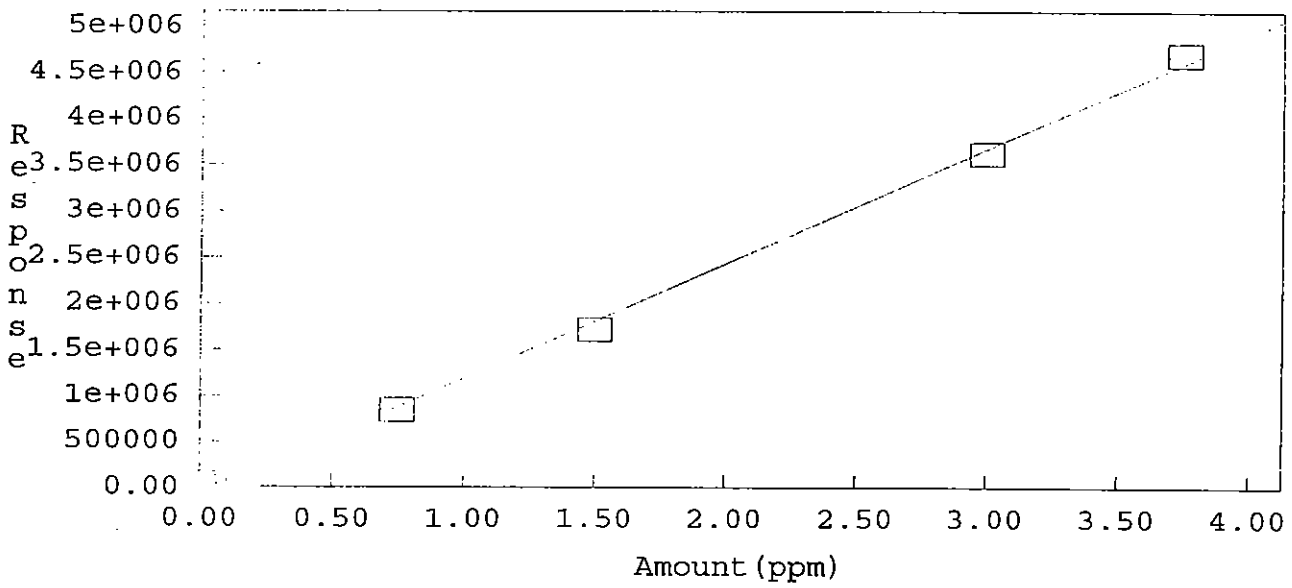
Method: C:\DX\METHOD\E300-063.MET

Component: Bromide
Fit Type: Linear
r^2 = 0.999518
Amt = Resp * 4.833e-006 + 0.0459
Resp = Amt * 2.069e+005 + -9497
Standardization: External
Calibration: Area



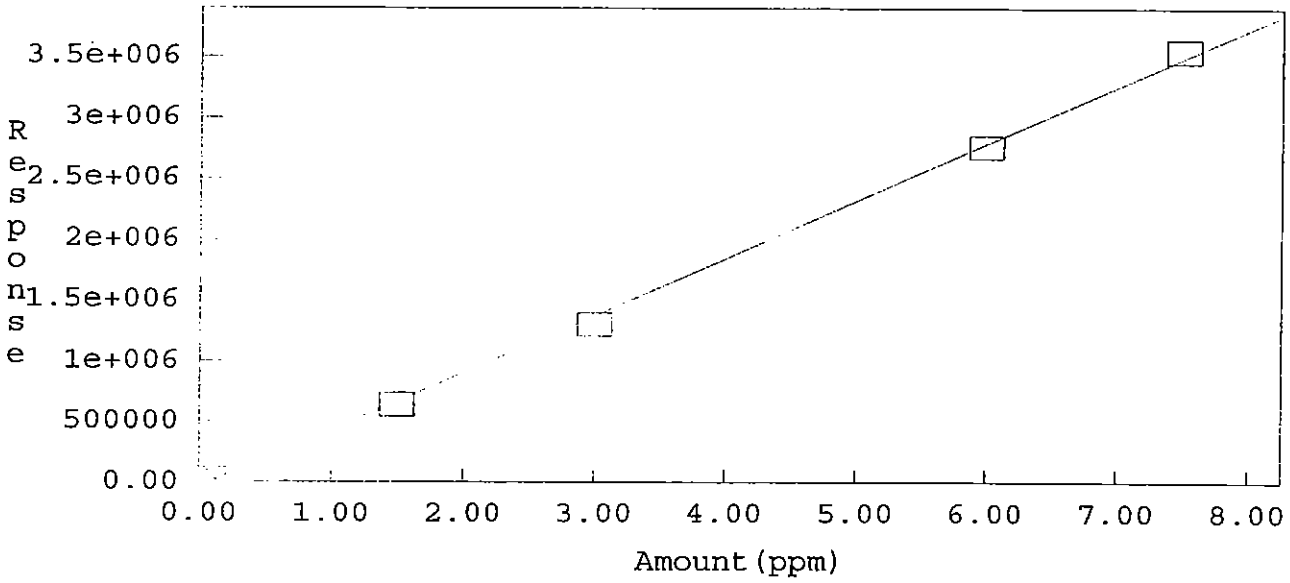
Method: C:\DX\METHOD\E300-063.MET

Component: Nitrate-N
Fit Type: Linear
r^2 = 0.998618
Amt = Resp * 8.056e-007 + 0.04247
Resp = Amt * 1.241e+006 + -5.272e+00
Standardization: External
Calibration: Area



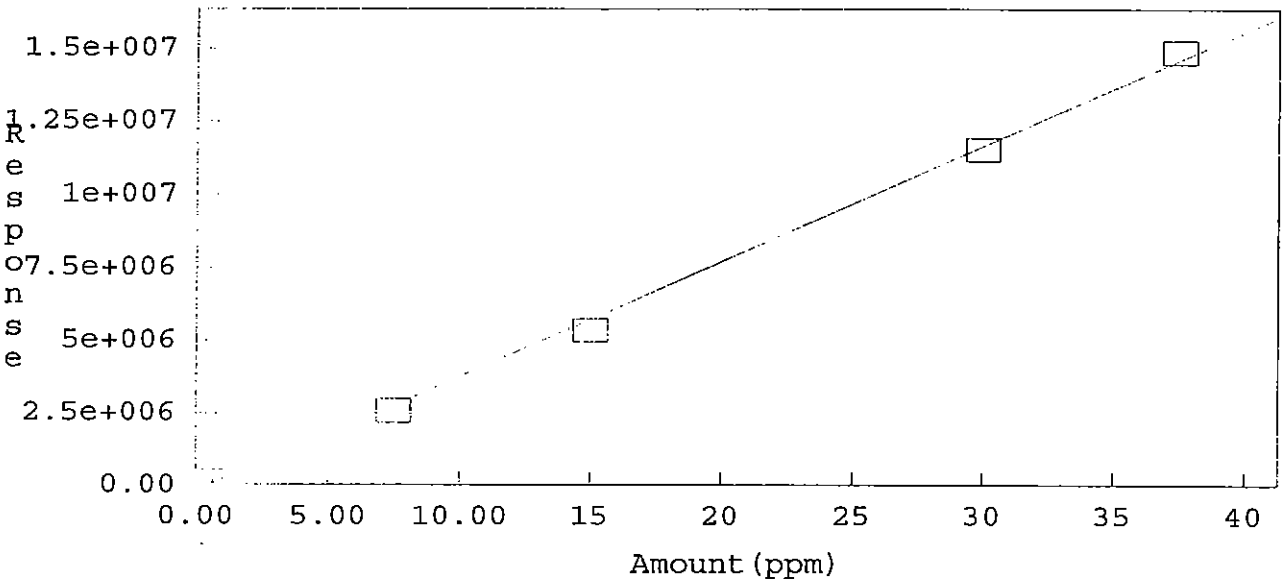
Method: C:\DX\METHOD\E300-063.MET

Component: Phosphate-P
Fit Type: Linear
r^2 = 0.998898
Amt = Resp * 2.122e-006 + 0.08689
Resp = Amt * 4.712e+005 + -4.094e+00
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\E300-063.MET

Component: Sulfate
Fit Type: Linear
r^2 = 0.998245
Amt = Resp * 2.533e-006 + 0.5323
Resp = Amt * 3.949e+005 + -2.102e+00
Standardization: External
Calibration: Area

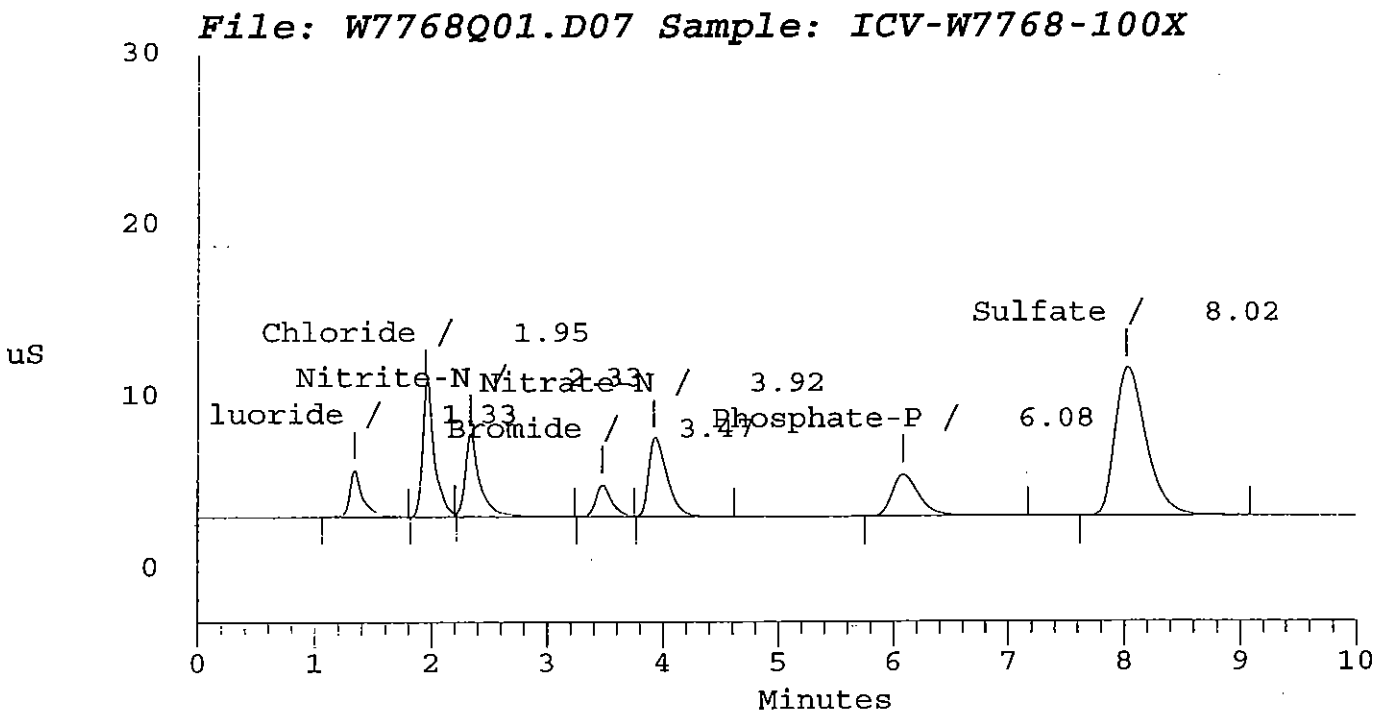


```
==============================================================================
| Sample Name: ICV-W7768-100X                    Date: 03/21/2003 17:56:33    |
| Data File  : C:\DX\DATA\e300-063\W7768Q01.D07                               |
| Method     : C:\DX\METHOD\E300-063.MET                                      |
| ACI Address: 1  System: 1  Inject#: 7                    Detector:COND      |
| Analyst    : David          Column: Dionex AS4A-SC                          |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.999	89896	726672	2	0.00
2	1.95	Chloride	3.767	248158	1863483	2	0.00
3	2.33	Nitrite-N	1.445	160603	1455681	2	1.17
4	3.47	Bromide	2.881	61007	586729	2	-0.71
5	3.92	Nitrate-N	1.410	149958	1697030	2	0.00
6	6.08	Phosphate-P	2.852	79916	1302965	1	0.00
7	8.02	Sulfate	13.993	285121	5314983	1	0.00
		Totals	27.347	1074659	12947545		

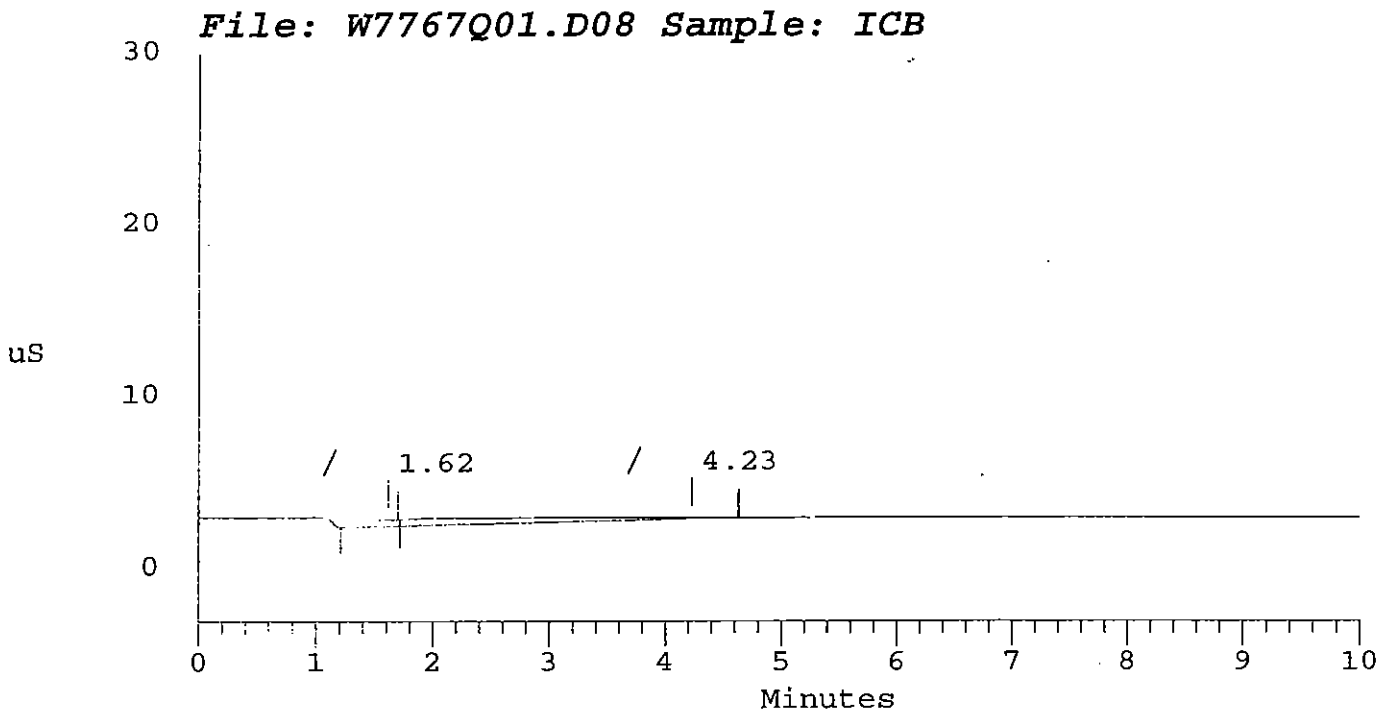


```
==============================================================================
| Sample Name: ICB                              Date: 03/21/2003 18:21:00      |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D08                                |
| Method     : C:\DX\METHOD\E300-063.MET                                       |
| ACI Address: 1  System: 1  Inject#: 8                   Detector:COND        |
| Analyst    : David          Column: Dionex AS4A-SC                           |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		

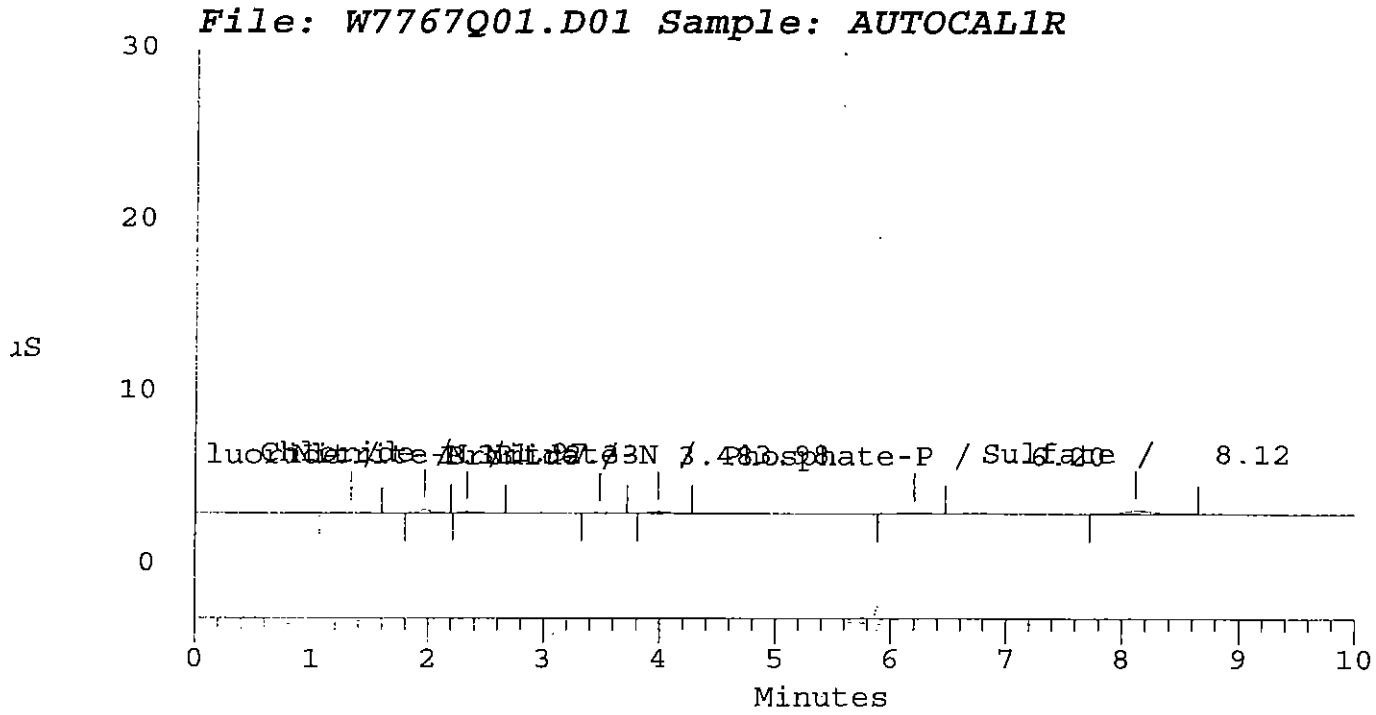


```
==========================================================================
| Sample Name: AUTOCAL1R                        Date: 03/21/2003 16:23:08  |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D01                            |
| Method     : C:\DX\METHOD\E300-063.MET                                   |
| ACI Address: 1  System: 1  Inject#: 1                  Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                       |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.025	2732	28534	1	0.00
2	1.97	Chloride	0.100	7044	51206	2	0.00
3	2.33	Nitrite-N	0.038	3582	30884	2	-3.33
4	3.48	Bromide	0.075	1488	13830	1	-1.47
5	3.98	Nitrate-N	0.038	3802	40157	1	0.00
6	6.20	Phosphate-P	0.075	1450	24783	1	0.00
7	8.12	Sulfate	0.376	6524	129999	1	0.00
		Totals	0.726	26621	319393		

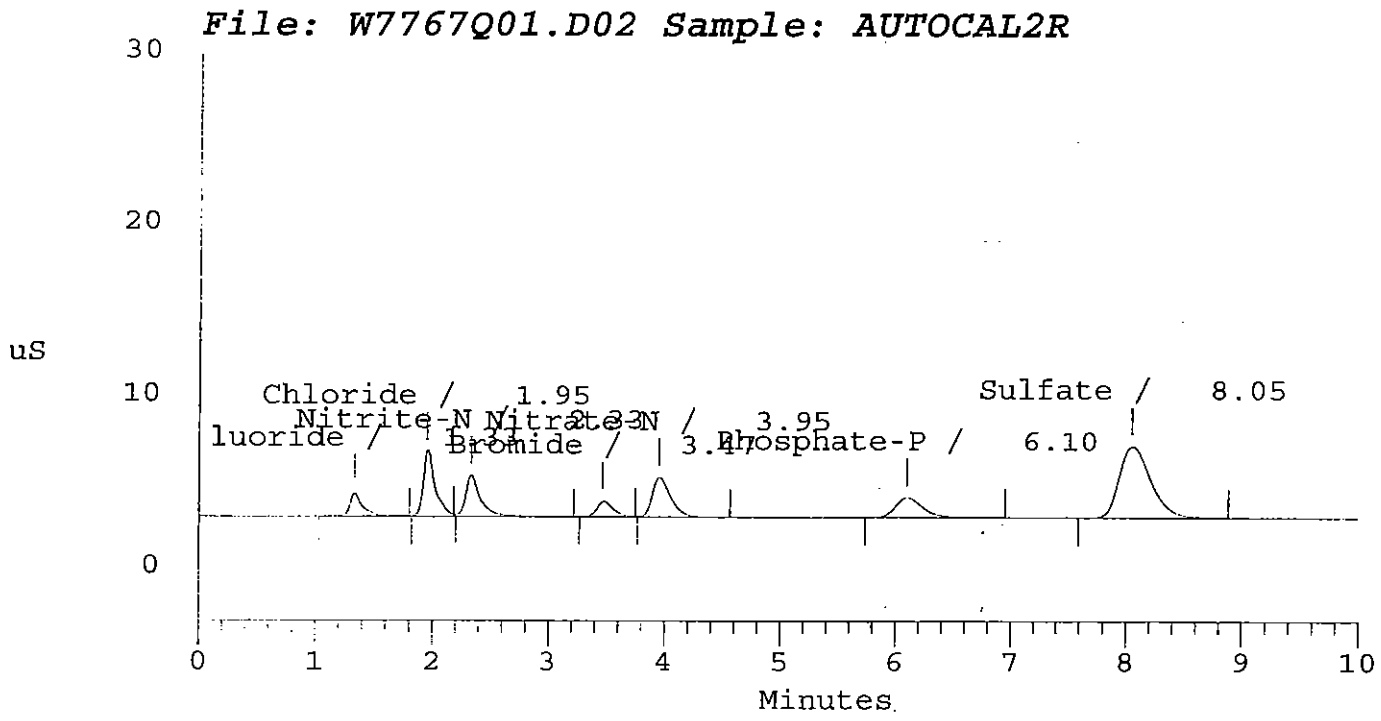


```
==========================================================================
| Sample Name: AUTOCAL2R                        Date: 03/21/2003 16:35:53 |
| Data File   : C:\DX\DATA\E300-063\W7767Q01.D02                          |
| Method      : C:\DX\METHOD\E300-063.MET                                 |
| ACI Address: 1  System: 1  Inject#: 2                  Detector:COND    |
| Analyst     : David          Column: Dionex AS4A-SC                     |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33	Fluoride	0.500	44629	373164	2	0.00
2	1.95	Chloride	2.000	126181	909455	2	0.00
3	2.33	Nitrite-N	0.750	79701	734006	2	0.85
4	3.47	Bromide	1.500	30100	298206	2	0.36
5	3.95	Nitrate-N	0.750	77129	849179	2	0.00
6	6.10	Phosphate-P	1.500	38579	642376	1	0.00
7	8.05	Sulfate	7.500	138579	2598757	1	0.00
		Totals	14.500	534896	6405142		

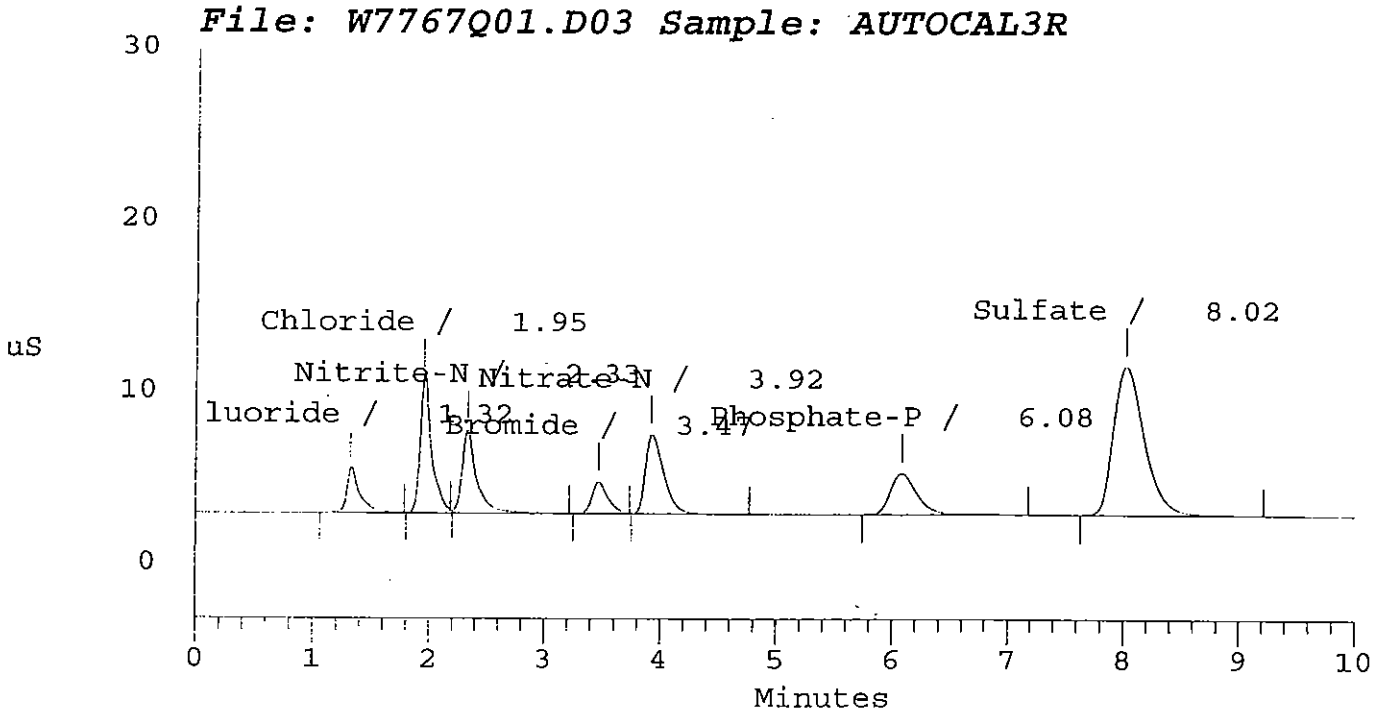


Sample Name: AUTOCAL3R	Date: 03/21/2003 16:48:37
Data File : C:\DX\DATA\E300-063\W7767Q01.D03	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 3	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	1.000	82595	707646	2	0.00
2	1.95	Chloride	4.000	261681	1856586	2	0.00
3	2.33	Nitrite-N	1.500	162005	1468106	2	0.00
4	3.47	Bromide	3.000	61776	591234	2	0.85
5	3.92	Nitrate-N	1.500	152776	1713421	2	0.00
6	6.08	Phosphate-P	3.000	79971	1301126	1	0.00
7	8.02	Sulfate	15.000	287851	5330209	1	0.00
		Totals	29.000	1088657	12968327		

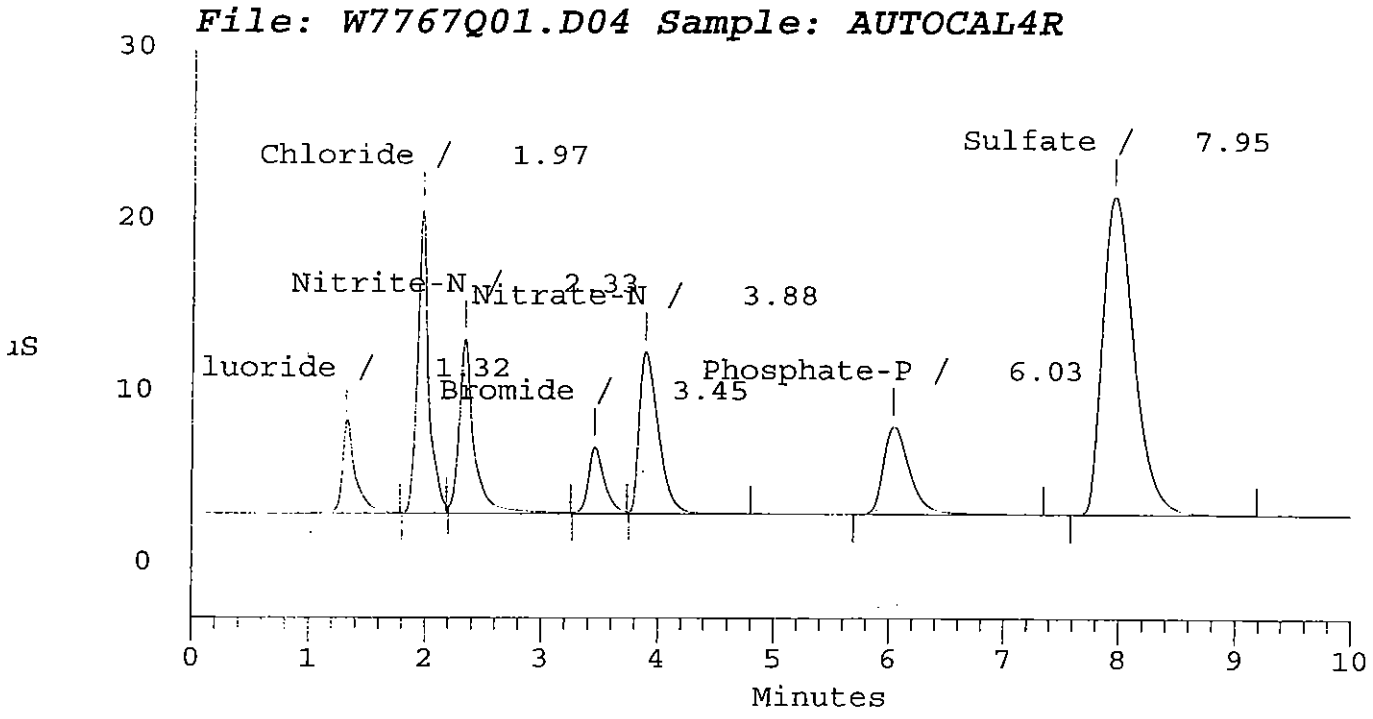


```
==========================================================================
| Sample Name: AUTOCAL4R                        Date: 03/21/2003 17:01:21  |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D04                            |
| Method     : C:\DX\METHOD\E300-063.MET                                   |
| ACI Address: 1  System: 1  Inject#: 4                  Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                       |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	2.000	173007	1435865	2	0.00
2	1.97	Chloride	8.000	585791	3987563	2	0.00
3	2.33	Nitrite-N	3.000	336616	3021523	2	-0.85
4	3.45	Bromide	6.000	128845	1219933	2	0.37
5	3.88	Nitrate-N	3.000	313707	3610927	2	0.00
6	6.03	Phosphate-P	6.000	168994	2756481	2	0.00
7	7.95	Sulfate	30.000	615917	11507107	2	0.00
		Totals	58.000	2322876	27539399		

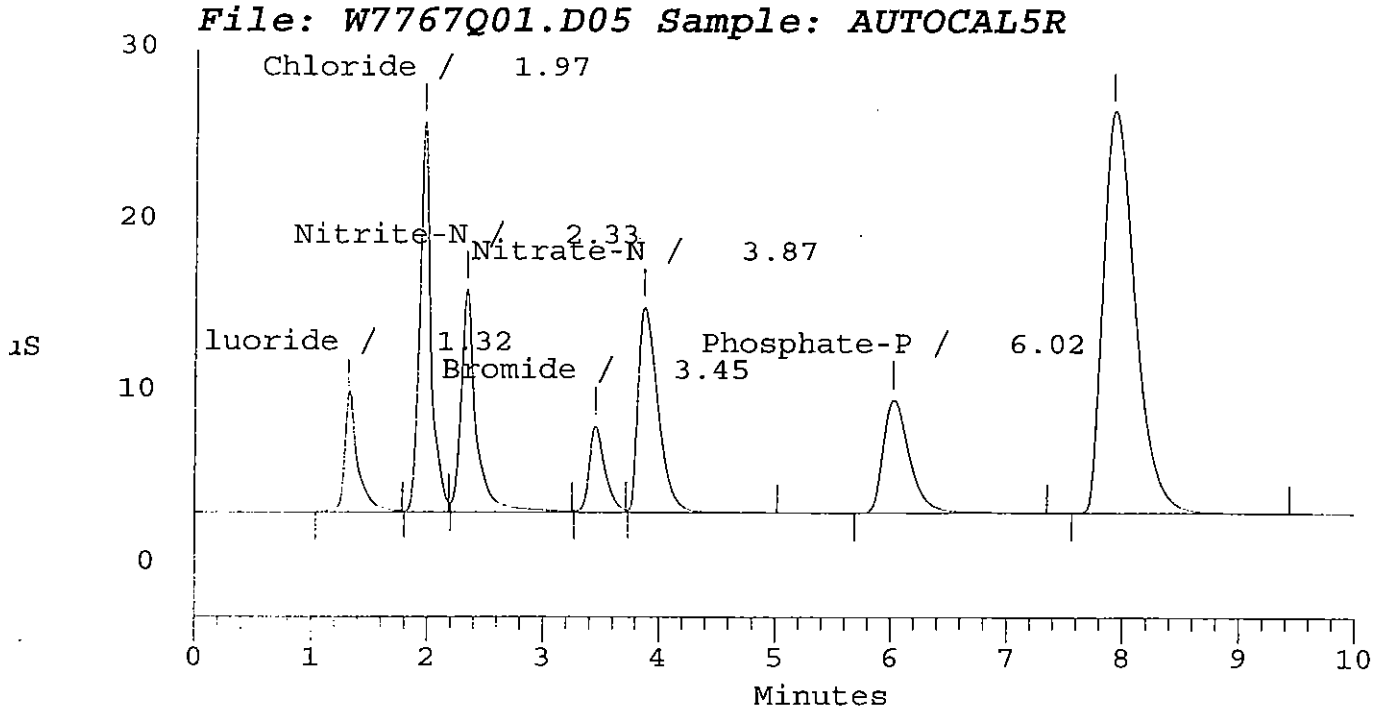


```
==========================================================================
| Sample Name: AUTOCAL5R                        Date: 03/21/2003 17:14:05  |
| Data File  : C:\DX\DATA\E300-063\W7767Q01.D05                            |
| Method     : C:\DX\METHOD\E300-063.MET                                   |
| ACI Address: 1  System: 1  Inject#: 5                  Detector:COND     |
| Analyst    : David          Column: Dionex AS4A-SC                       |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.32	Fluoride	2.500	220914	1837162	2	0.00
2	1.97	Chloride	10.000	754321	5142155	2	0.00
3	2.33	Nitrite-N	3.750	429219	3856614	2	0.00
4	3.45	Bromide	7.500	166594	1559887	2	0.43
5	3.87	Nitrate-N	3.750	396441	4688990	2	0.00
6	6.02	Phosphate-P	7.500	217521	3546397	2	0.00
7	7.92	Sulfate	37.500	776426	14859049	2	0.00
		Totals	72.500	2961435	35490255		



Data Reprocessed On 03/21/2003 17:39:26

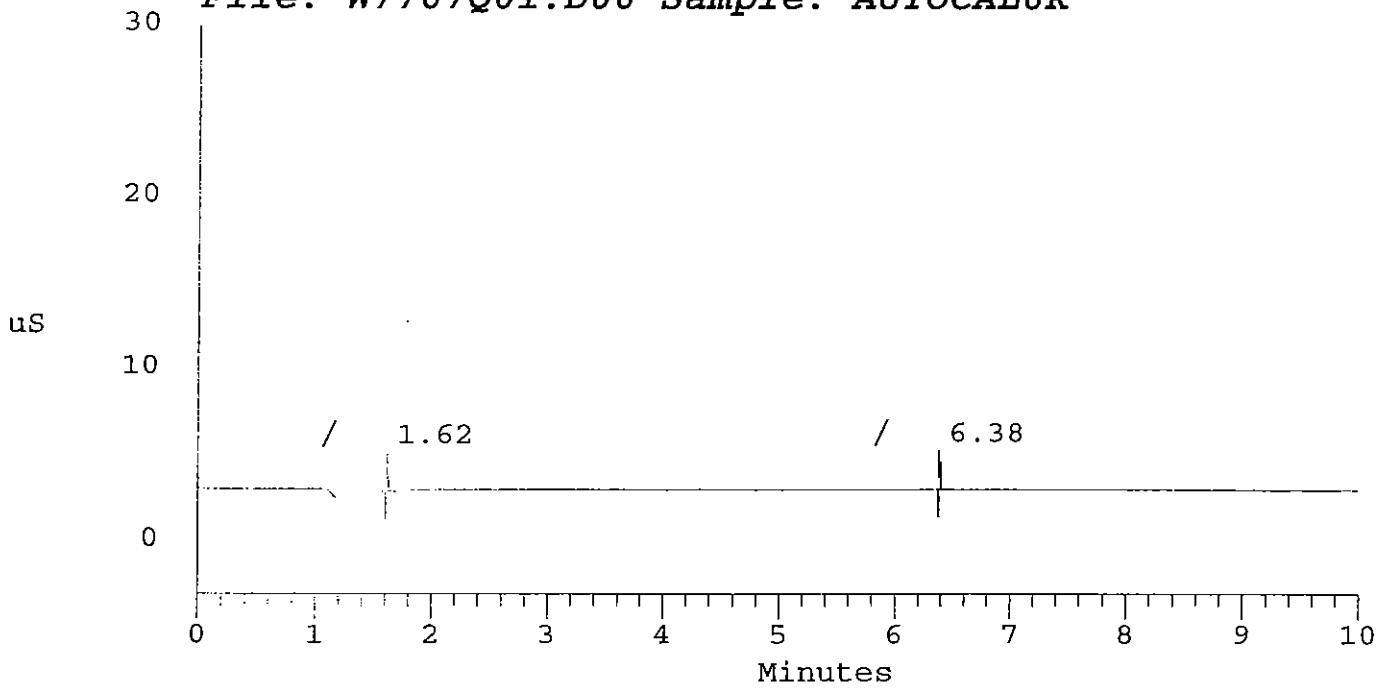
Sample Name: AUTOCAL6R	Date: 03/21/2003 17:37:58
Data File : C:\DX\DATA\E300-063\W7767Q01.D06	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
0	0.00	Phosphate-P	0.000	0	0	0	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	0	0		

File: W7767Q01.D06 Sample: AUTOCAL6R



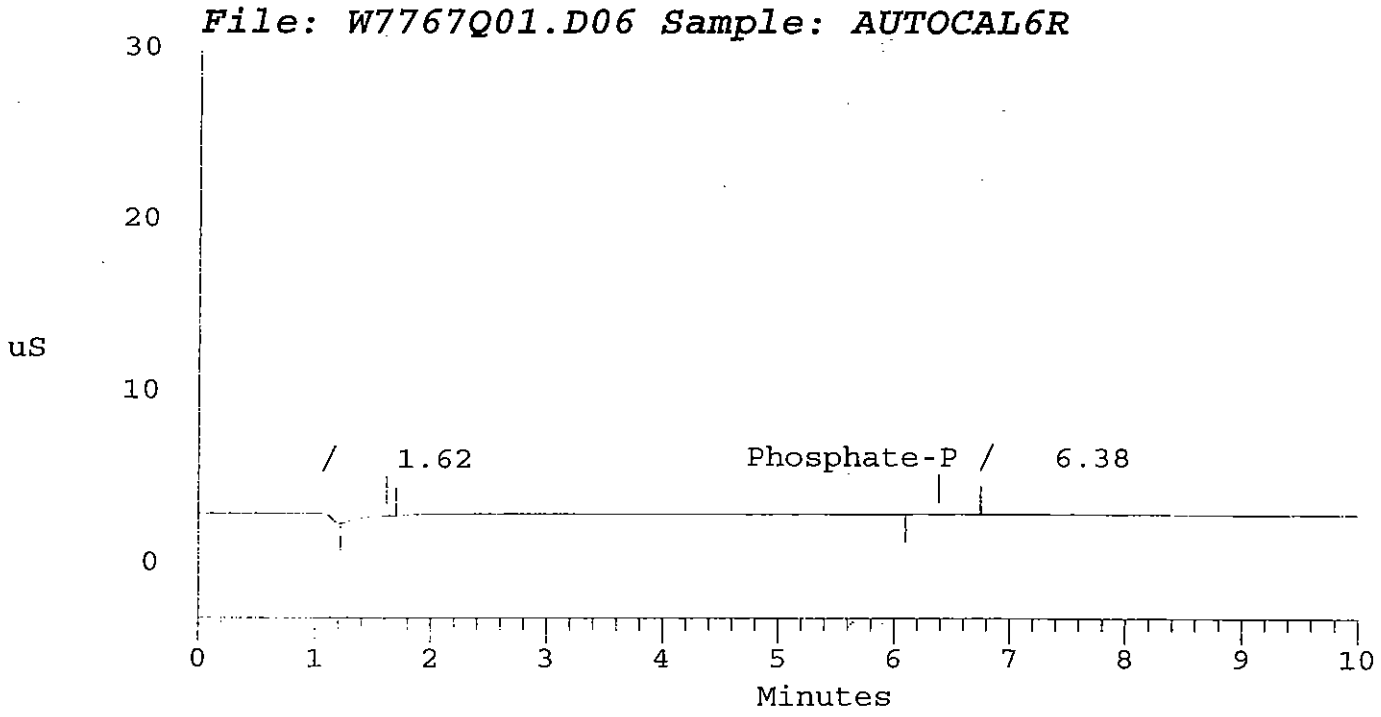
After
3/21/03

Sample Name: AUTOCAL6R	Date: 03/21/2003 17:37:58
Data File : C:\DX\DATA\E300-063\W7767Q01.D06	
Method : C:\DX\METHOD\E300-063.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:COND
Analyst : David Column: Dionex AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

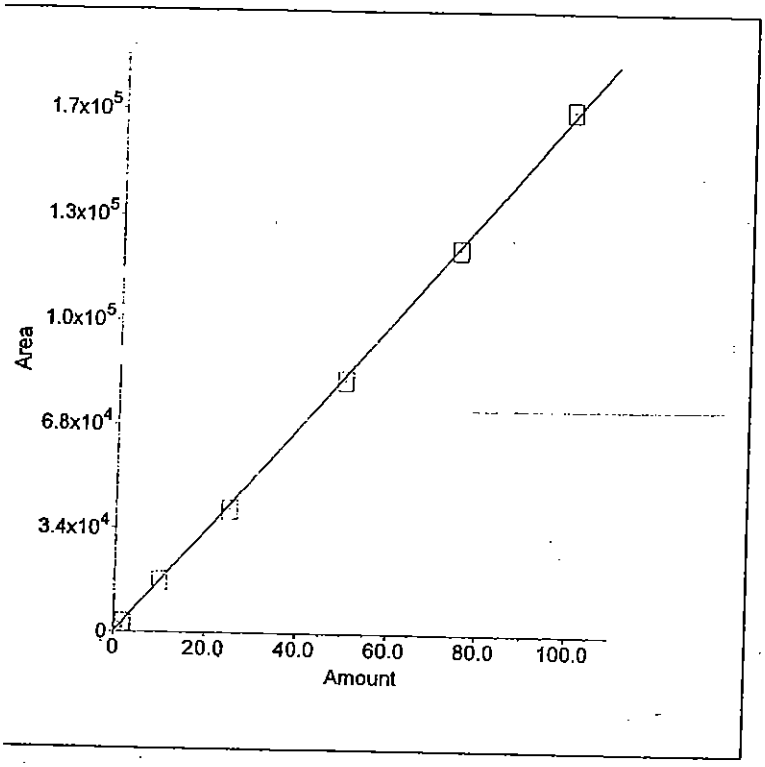
Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
0	0.00	Fluoride	0.000	0	0	0	0.00
0	0.00	Chloride	0.000	0	0	0	0.00
0	0.00	Nitrite-N	0.000	0	0	0	0.00
0	0.00	Bromide	0.000	0	0	0	0.00
0	0.00	Nitrate-N	0.000	0	0	0	0.00
2	6.38	Phosphate-P	0.000	582	11752	1	0.00
0	0.00	Sulfate	0.000	0	0	0	0.00
		Totals	0.000	582	11752		



Before

6021

1, Component:perchlorate
Standard:External Fit Type:Linear
Origin:Force Calibration:Area
r^2=0.999492
Amt=0.0005893*Resp+0



Calibration : 7 points , 0, 2, 10, 25, 50, 75, 100 ppb

Analyst C. W
Date 03/12/03
Instrument IC-1C

APCL Perchlorate Analysis Report

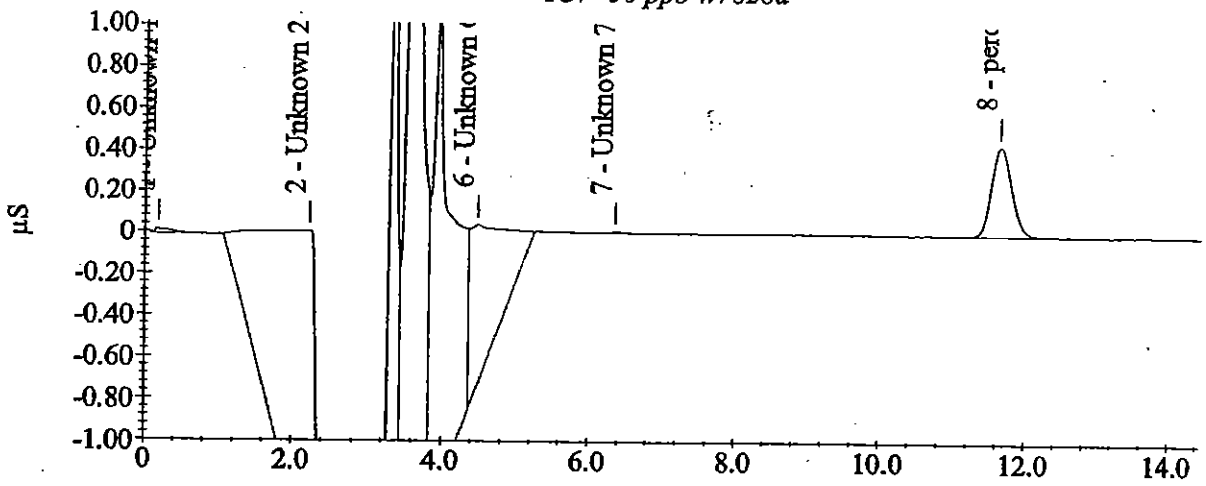
Sample Name : ICV 50 ppb w7828a
Data File Name : C:\DATA\E314-011\icv-50pb_009.DXD

Method File Name : C:\PEAKNET\METHOD\E314-011.met
Date Time Collected : 03/12/2003 8:16:15 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.65	49.49	83990	4321

ICV 50 ppb w7828a



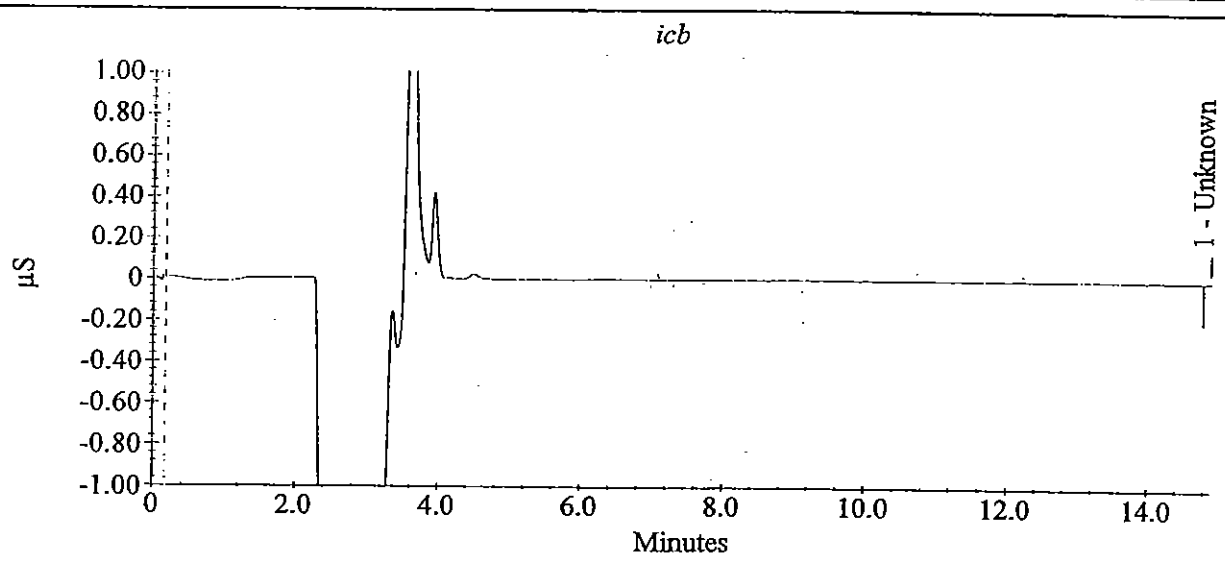
APCL Perchlorate Analysis Report

Sample Name : icb
Data File Name : C:\DATA\E314-011\ICB_010.DXD

Method File Name : c:\PeakNet\method\E314-011.met
Date Time Collected : 03/12/2003 8:33:51 PM
System Operator : wei wang
~~Dilution Factor : 1.00~~

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



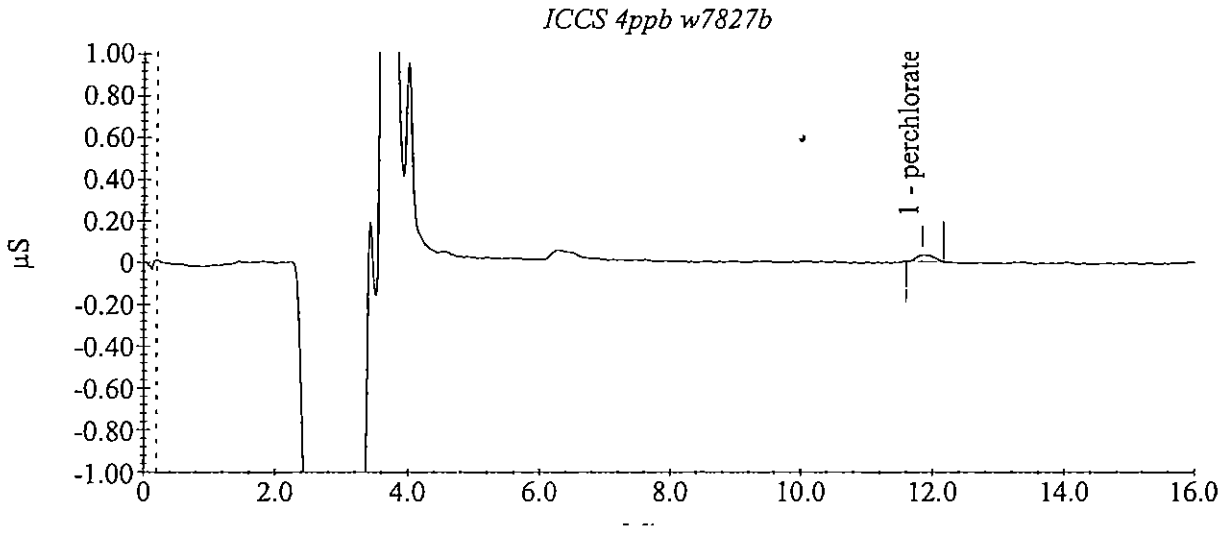
APCL Perchlorate Analysis Report

Sample Name : ICCS 4ppb w7827b
Data File Name : C:\DATA\03W2804K\W2804K ICCS 4PPB_006.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 1:30:24 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	11.85	3.45	5851.90	315.06



APCL Perchlorate Analysis Report

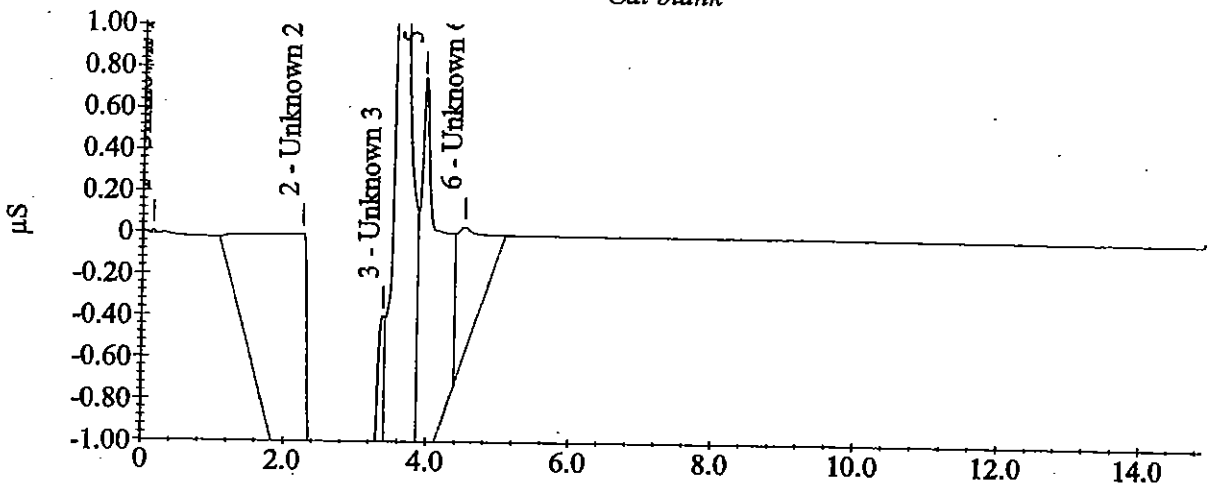
Sample Name : Cal blank
Data File Name : C:\data\E314-011\Mb_001.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 03/12/2003 5:55:39 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height

Cal blank



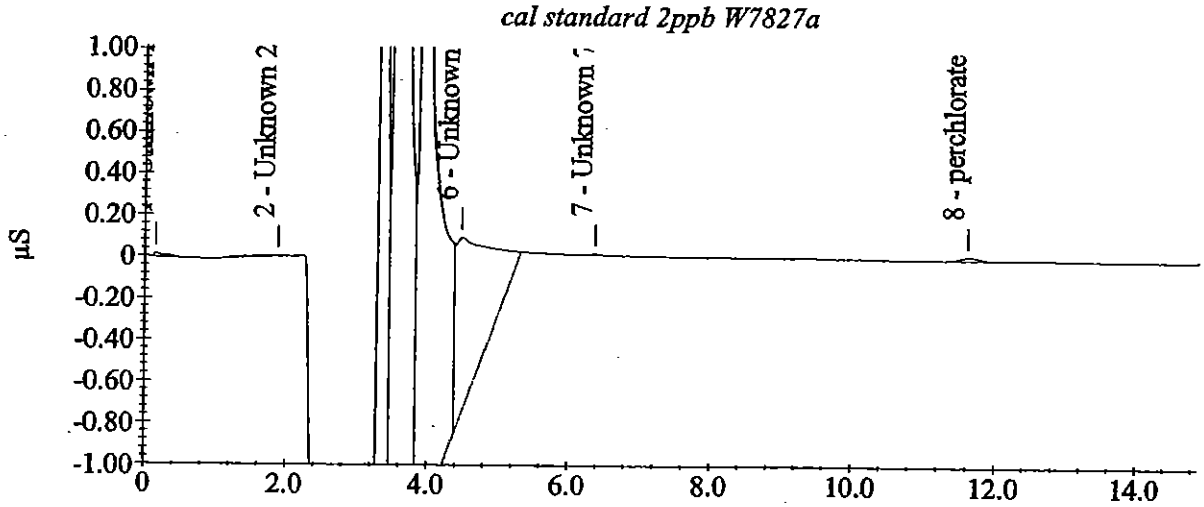
APCL Perchlorate Analysis Report

Sample Name : cal standard 2ppb W7827a
Data File Name : C:\DATA\E314-011\std-2pb_002.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 6:13:12 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.62	1.92	2910	164



APCL Perchlorate Analysis Report

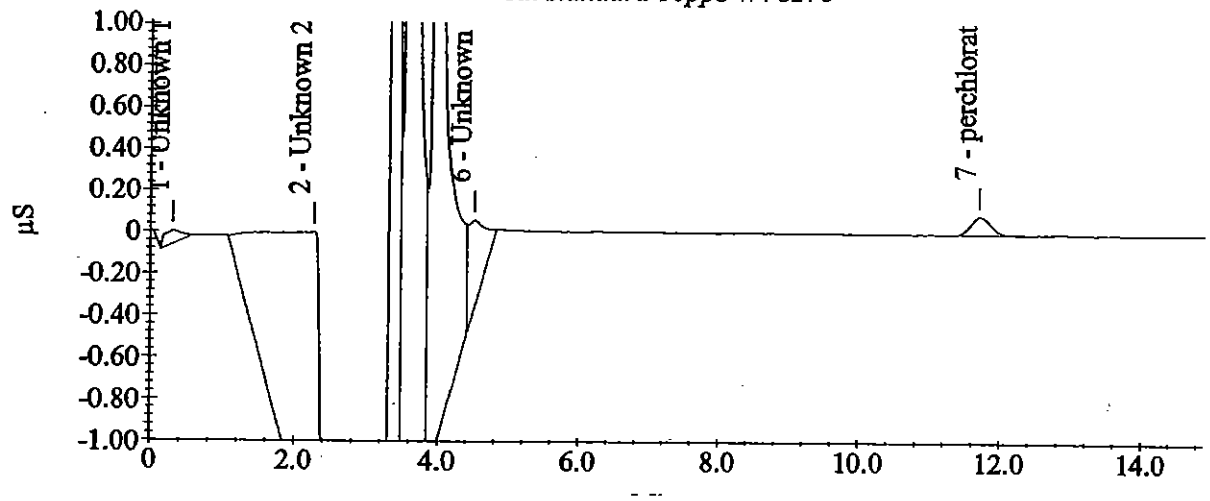
Sample Name : cal standard 10ppb W7827c
Data File Name : C:\DATA\E314-011\std-10pb_004.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 6:48:21 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
7	perchlorate	11.70	11.16	16917	879

cal standard 10ppb W7827c



APCL Perchlorate Analysis Report

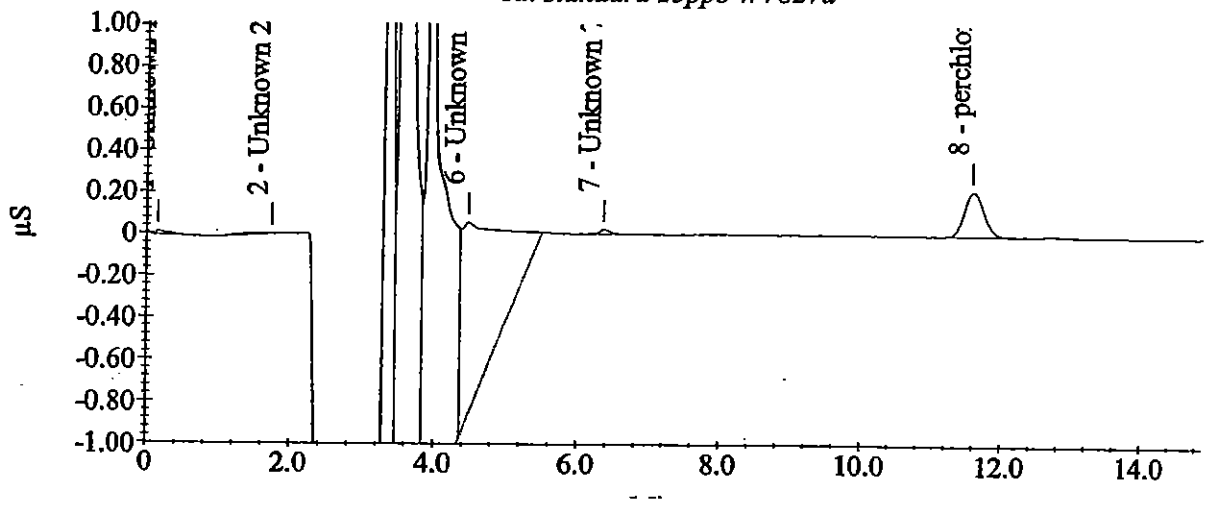
Sample Name : cal standard 25ppb W7827d
Data File Name : C:\DATA\E314-011\std-25pb_005.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:05:54 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.60	26.84	40702	2125

cal standard 25ppb W7827d



APCL Perchlorate Analysis Report

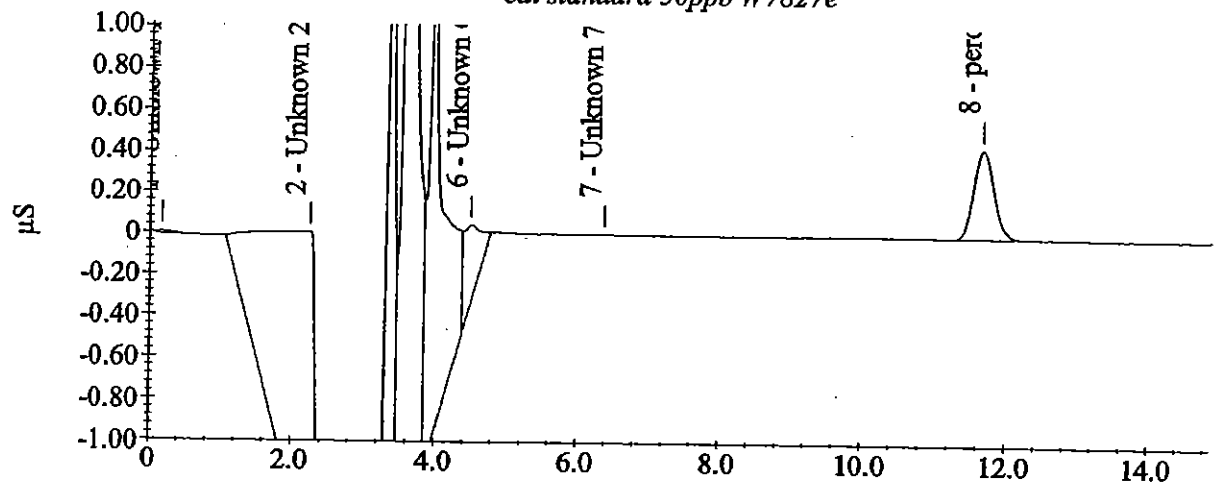
Sample Name : cal standard 50ppb W7827e
Data File Name : C:\DATA\E314-011\std-50pb_006.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:23:30 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.67	54.89	83240	4320

cal standard 50ppb W7827e



APCL Perchlorate Analysis Report

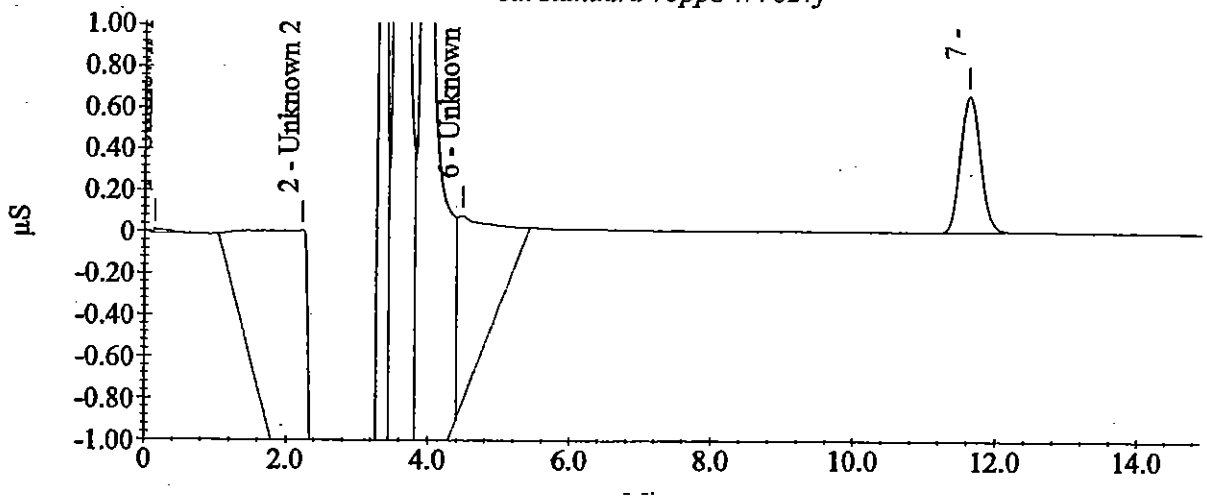
Sample Name : cal standard 75ppb W7827f
Data File Name : C:\DATA\E314-011\std-75pb_007.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:41:05 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
7	perchlorate	11.62	83.23	126224	6553

cal standard 75ppb W7827f



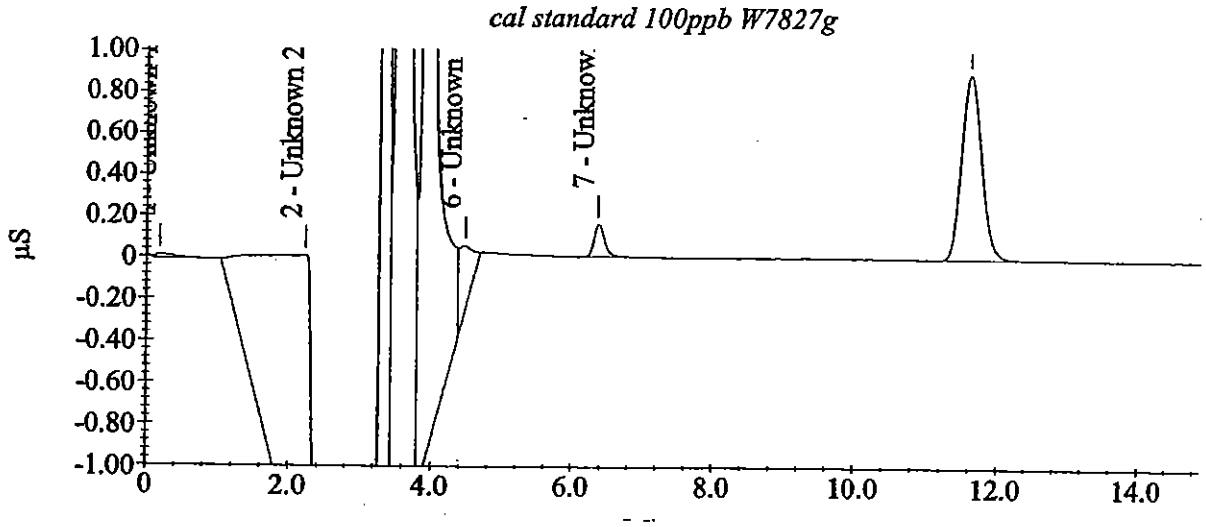
APCL Perchlorate Analysis Report

Sample Name : cal standard 100ppb W7827g
Data File Name : C:\DATA\E314-011\std-100pb_008.DXD

Method File Name : C:\PEAKNET\METHOD\e314-011.met
Date Time Collected : 03/12/2003 7:58:39 PM
System Operator : wei wang
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
8	perchlorate	11.62	113.21	171686	8927[illegible]



FORM-7

Applied P.& Ch Laboratory

CCV Recovery for Wet Analysis

Client Name: GEOFON, Inc. Contract No.: Lab Code: APCL
Case No: SAS No.: Service ID: 33102
Project ID: JPL Project No.: 04-4428.10

#	Component Name	Method	Batch No.	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	Test Date
1	Chloride Cl^-	300.0	03W2777	mg/L	4.0	4.04	101	1	√	90-110	05/08/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2777	mg/L	1.5	1.57	104	4	√	90-110	05/08/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2777	mg/L	15	15.6	104	4	√	90-110	05/08/2003
	Chloride Cl^-	300.0	03W2777	mg/L	4.0	4.05	101	1	√	90-110	05/08/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2777	mg/L	1.5	1.56	104	4	√	90-110	05/08/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2777	mg/L	15	15.4	103	3	√	90-110	05/08/2003
	Chloride Cl^-	300.0	03W2777	mg/L	4.0	4.10	103	3	√	90-110	05/08/2003
	NITRATE as N-NO_3^-, BY	300.0	03W2777	mg/L	1.5	1.57	104	4	√	90-110	05/08/2003
	SULFATE SO_4^{--}, BY I	300.0	03W2777	mg/L	15	15.5	103	3	√	90-110	05/08/2003
2	Perchlorate	314.0	03W2804	μg/L	50	49.9	100	0	√	90-110	05/09/2003
	Perchlorate	314.0	03W2804	μg/L	50	51.1	102	2	√	90-110	05/09/2003
	Perchlorate	314.0	03W2804	μg/L	50	51.1	102	2	√	90-110	05/09/2003
	Perchlorate	314.0	03W2804	μg/L	50	52.3	105	5	√	90-110	05/09/2003
3	Chromium (VI)	7196	03W2757	mg/L	0.25	0.244	98	-2	√	90-110	05/07/2003
	Chromium (VI)	7196	03W2757	mg/L	0.25	0.251	100	0	√	90-110	05/07/2003

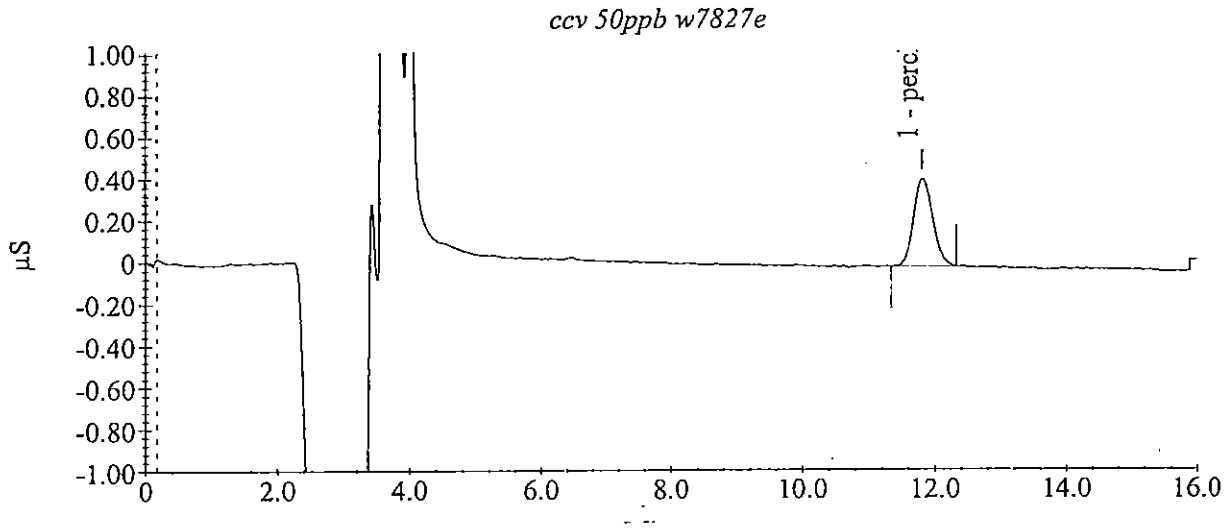
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2804K\W2804K ~~IPC 25PPB~~ Q01 _002.DXD
WW 5/8/03

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 12:14:03 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	11.82	49.91	84707.30	4217.64



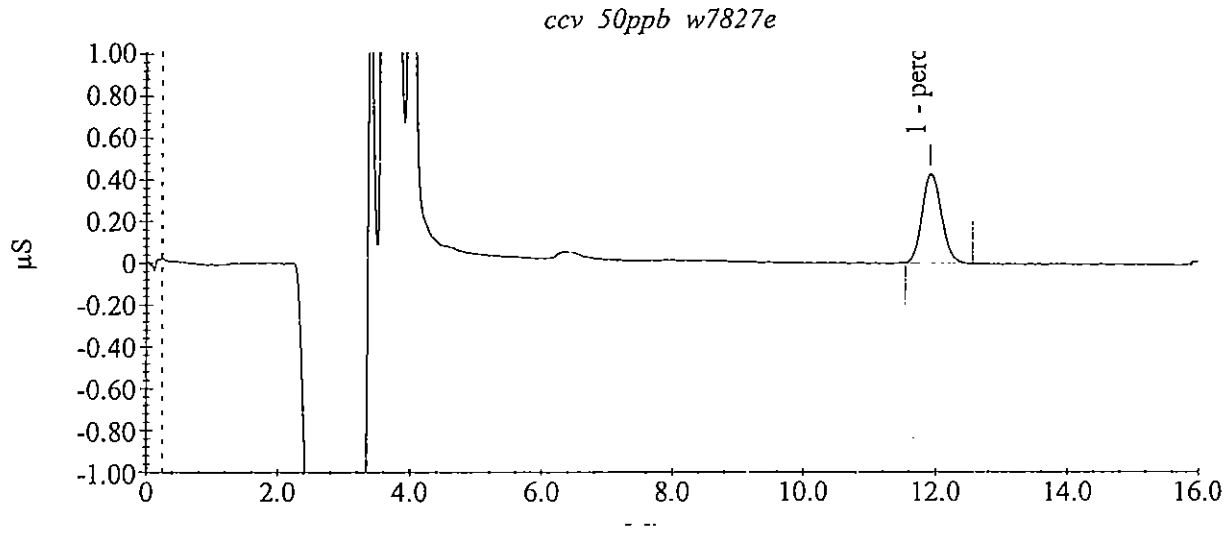
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2804K\W2804K Q02_013.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 3:41:51 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	11.92	51.05	86631.20	4239.90



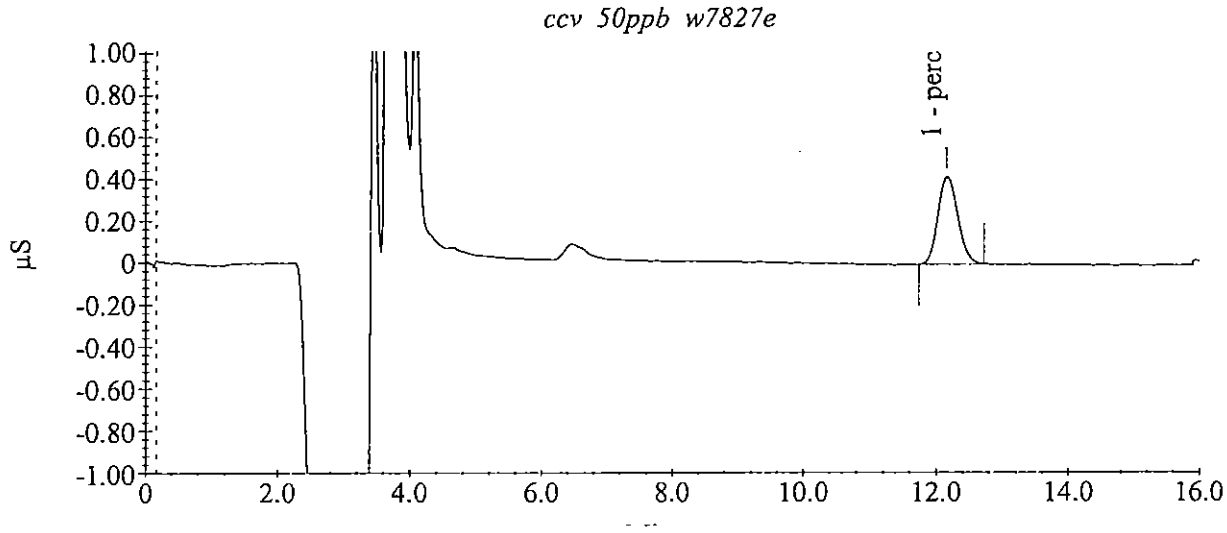
APCL Perchlorate Analysis Report

Sample Name : ccv 50ppb w7827e
Data File Name : C:\DATA\03W2804K\W2804K Q03_024.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 7:07:39 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.15	51.12	86754.95	4158.40



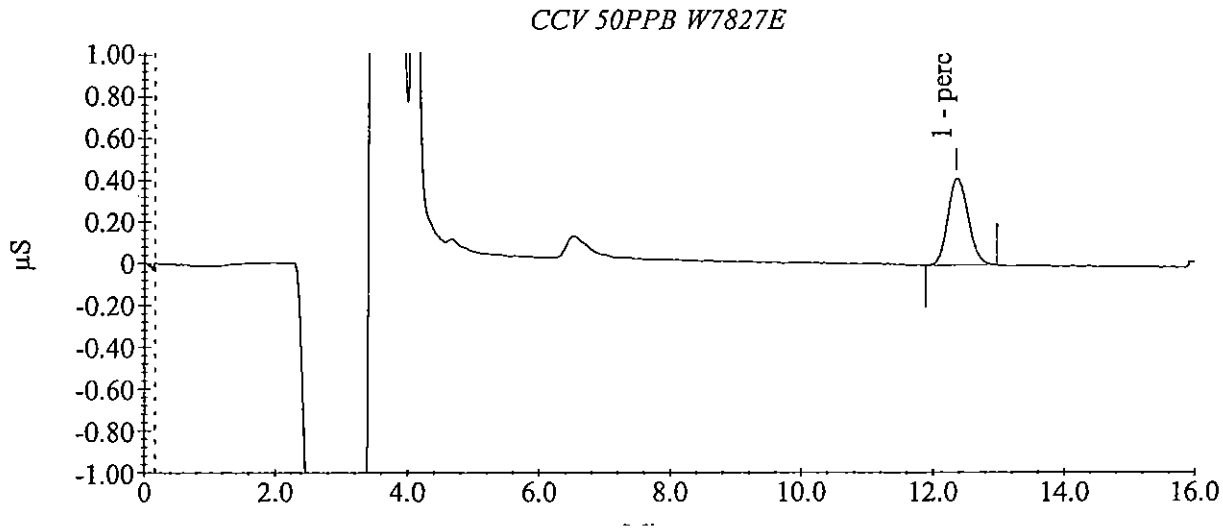
APCL Perchlorate Analysis Report

Sample Name : CCV 50PPB W7827E
Data File Name : C:\DATA\03W2804K\W2804K Q04_033.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 9:55:55 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	12.35	52.33	88811.00	4141.96



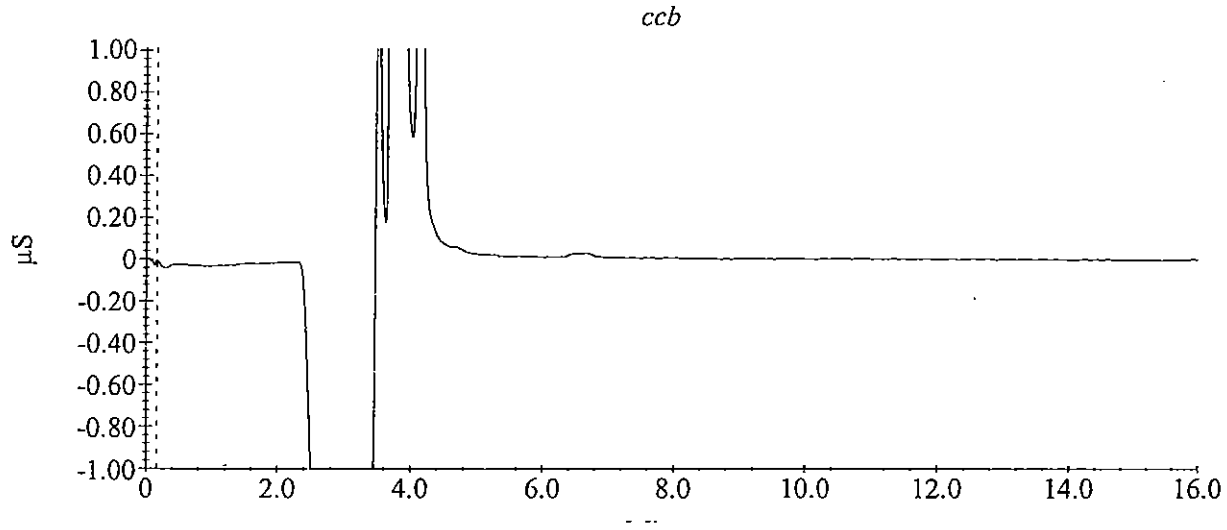
APCL Perchlorate Analysis Report

Sample Name : ccb
Data File Name : C:\DATA\03W2804K\W2804K K02_014.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 4:00:35 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



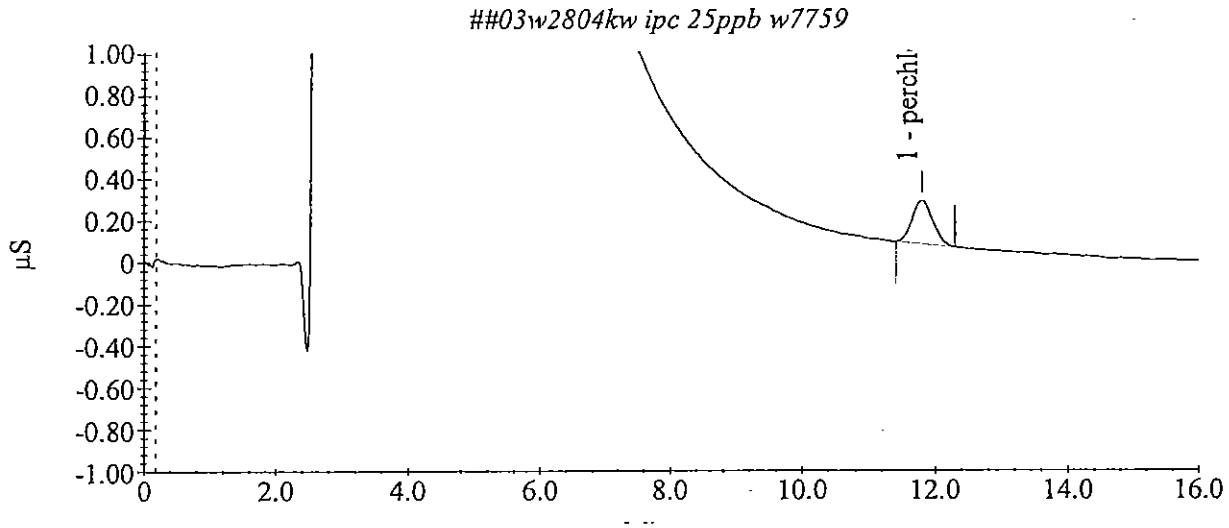
APCL Perchlorate Analysis Report

Sample Name : ##03w2804kw ipc 25ppb w7759
Data File Name : C:\DATA\03W2804K\W2804K IPC 25PPB_001.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 11:53:03 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	perchlorate	11.80	25.98	44089.40	2058.26



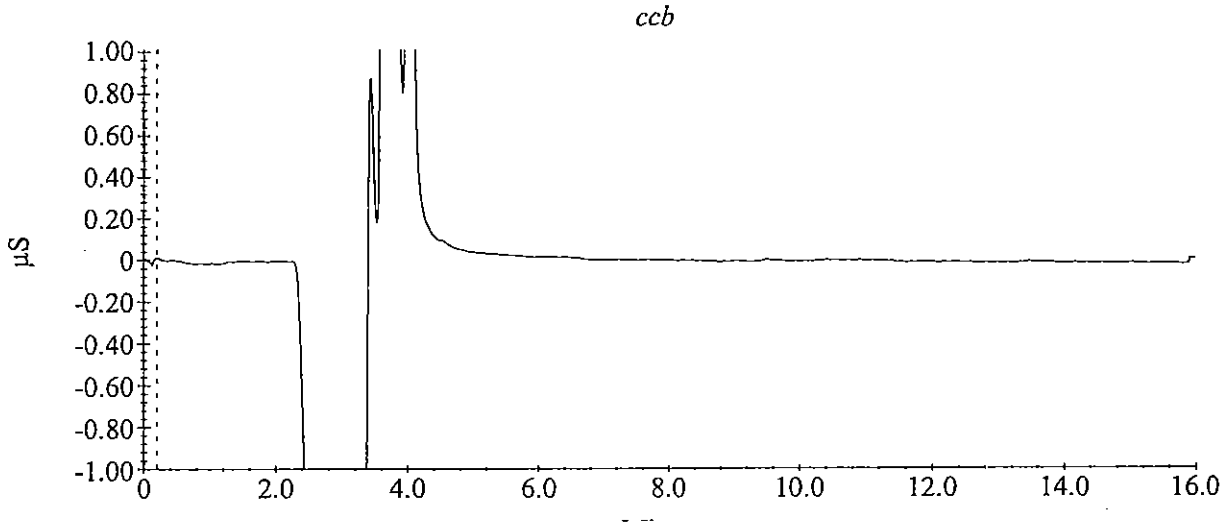
APCL Perchlorate Analysis Report

Sample Name : ccb
Data File Name : C:\DATA\03W2804K\W2804K CCB01_003.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 12:33:14 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



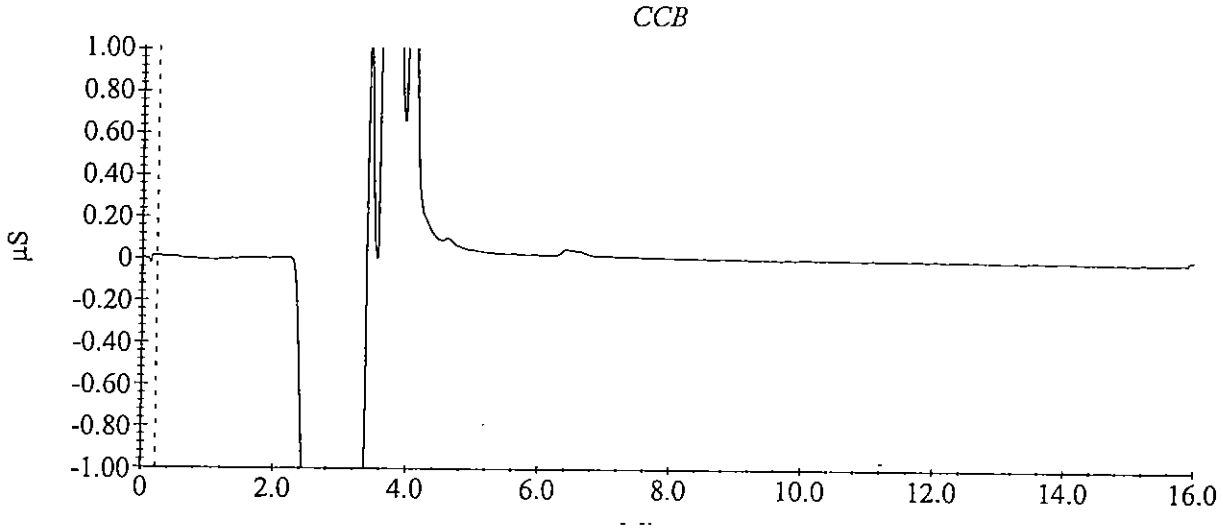
APCL Perchlorate Analysis Report

Sample Name : CCB
Data File Name : C:\DATA\03W2804K\W2804K K03_025.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 05/09/2003 7:26:32 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height

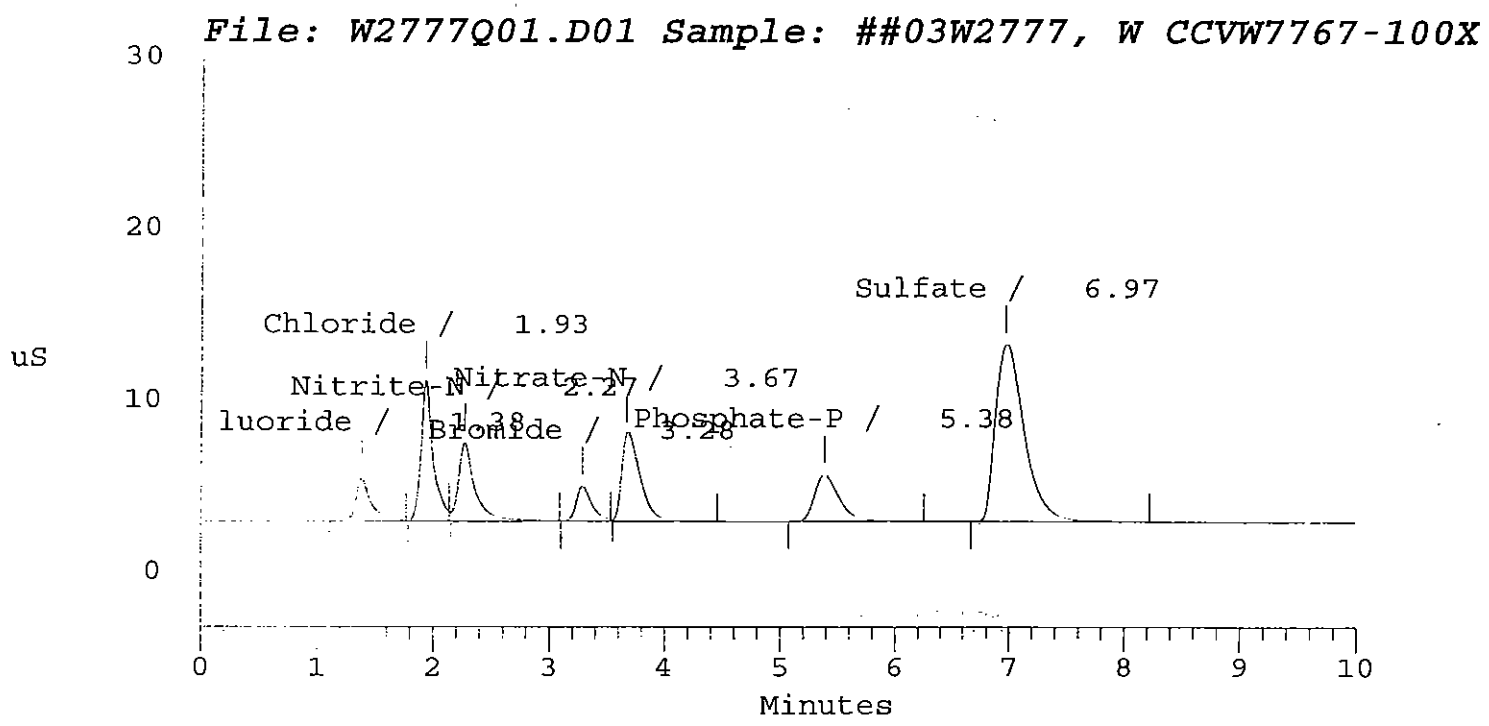


```
==========================================================================
| Sample Name: ##03W2777, W CCVW7767-100X     Date: 05/08/2003 10:44:45   |
| Data File  : C:\DX\DATA\03W2777\W2777Q01.D01                            |
| Method     : C:\DX\METHOD\E300-063.MET                                  |
| ACI Address: 1  System: 1  Inject#: 1                  Detector:COND    |
  Analyst    : David          Column: Dionex AS4A-SC                     |
==========================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	1000	

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.38	Fluoride	1.036	83924	753486	2	0.00
2	1.93	Chloride	4.044	273534	2005251	2	0.00
3	2.27	Nitrite-N	1.511	152610	1523706	2	-1.00
4	3.28	Bromide	3.171	67986	646619	2	1.11
5	3.67	Nitrate-N	1.565	170204	1889751	2	0.00
6	5.38	Phosphate-P	3.001	90703	1373014	1	0.00
7	6.97	Sulfate	15.593	342934	5947043	1	0.00
		Totals	29.921	1181895	14138869		



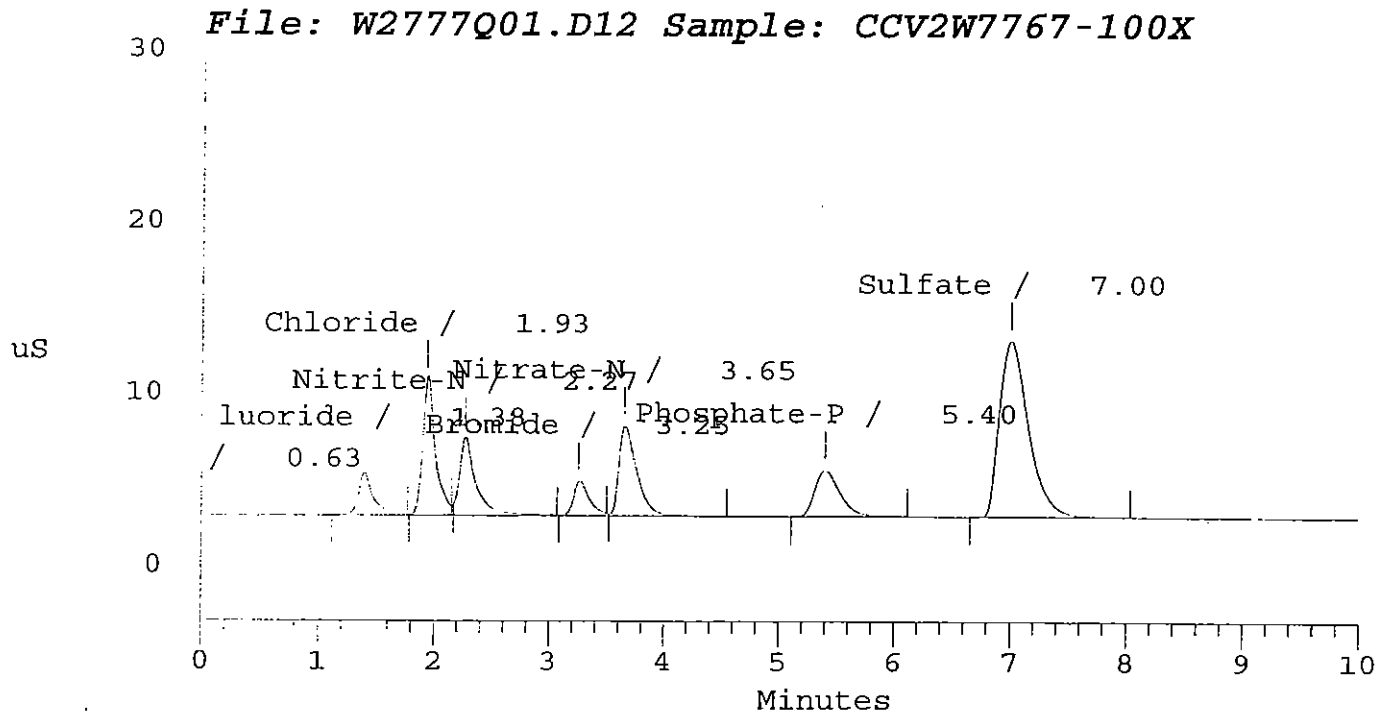
Data Reprocessed On 05/09/2003 09:36:35

Sample Name: CCV2W7767-100X Date: 05/08/2003 13:42:26
Data File : C:\DX\DATA\03W2777\W2777Q01.D12
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 12 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
2	1.38	Fluoride	1.029	80347	748214	2	0.00
3	1.93	Chloride	4.053	263183	2009588	2	0.00
4	2.27	Nitrite-N	1.511	151559	1522946	2	-1.00
5	3.25	Bromide	3.175	65725	647437	2	0.54
6	3.65	Nitrate-N	1.561	172900	1884554	2	0.00
7	5.40	Phosphate-P	2.943	89007	1345558	1	0.00
8	7.00	Sulfate	15.429	341021	5882325	1	0.00
		Totals	29.699	1163742	14040621		

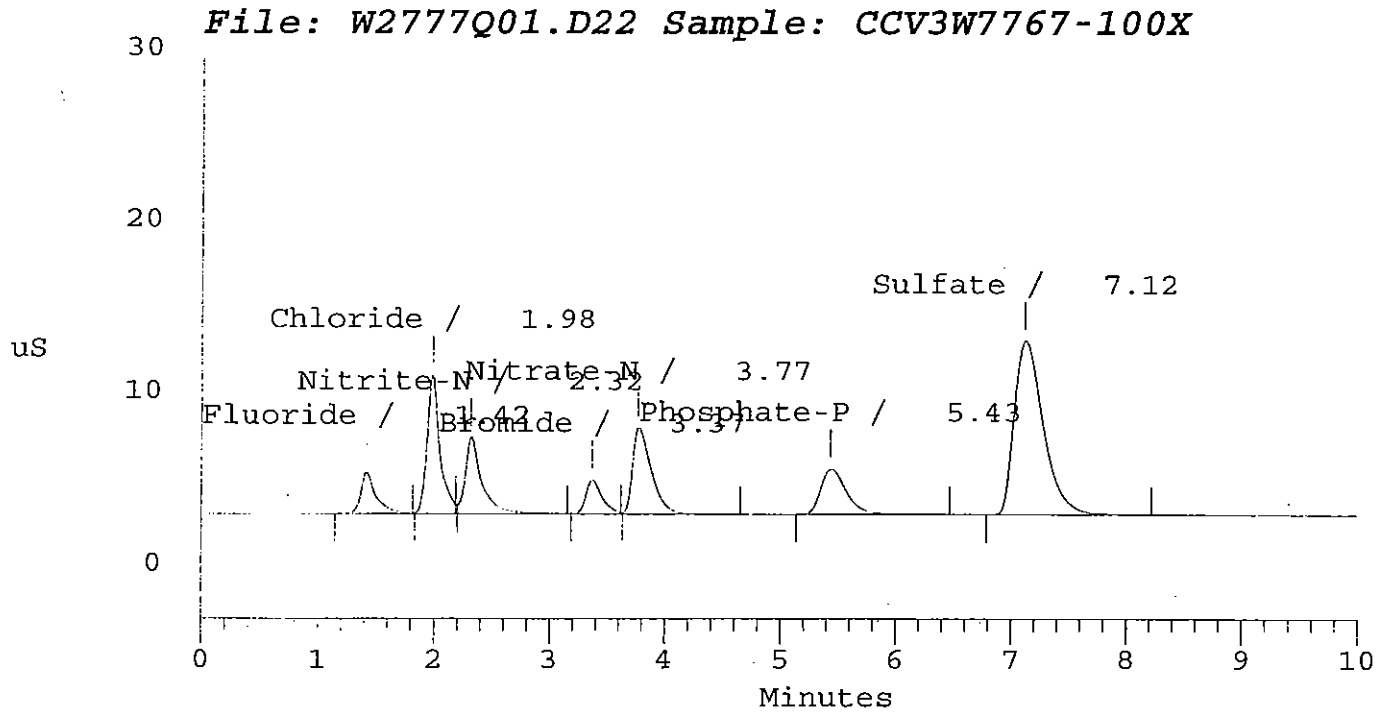


Sample Name: CCV3W7767-100X Date: 05/08/2003 17:44:06
Data File : C:\DX\DATA\03W2777\W2777Q01.D22
Method : C:\DX\METHOD\E300-063.MET
ACI Address: 1 System: 1 Inject#: 22 Detector:COND
Analyst : David Column: Dionex AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		1000

********** Component Report: All Components **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.42	Fluoride	1.055	81329	767094	2	0.00
2	1.98	Chloride	4.100	268332	2033941	2	0.00
3	2.32	Nitrite-N	1.522	147718	1534676	2	-1.36
4	3.37	Bromide	3.193	65898	651102	2	0.92
5	3.77	Nitrate-N	1.565	166576	1890052	2	0.00
6	5.43	Phosphate-P	3.001	87681	1373038	1	0.00
7	7.12	Sulfate	15.491	335676	5906475	1	0.00
		Totals	29.926	1153210	14156378		



Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Alkalinity/OH/CO_3/HCO_3 (310.1/SM2320B) Worksheet

Batch # 03W2784 Matrix: W Titrant H_2SO_4 Lot # W7900 Concentration (c) 0.02177 N; Test Date: 5/8/02 Analyst: DL SOP: G-51

#	Sample ID	Dilution $V_f/V_i=f_1$	Smpl Amnt V, mL	H_2SO_4 (mL) by Phnln S_A	E_A	A	H_2SO_4 (mL) by MR-BCG S_B	E_B	B	Phnln-Alk., P	Tot. Alk., T (in unit of mgCaCO$_3$/L)	OH^-	CO_3^{2-}	HCO_3^-	Note & Anomaly
1	MB: Tmb	1 =	100			0			0		0	0	0	0	
2	LCS	1 =	100						7.80		99.6				
3	LCSD	1 =	100						7.95		101.6				
4	3041-2	1 =	50.0			0			0		0	0	0	0	
5	-3	1 =	50.0			0			5.90		150.7	0	0	150.7	
6	-4	1 =	50.0			0			0		0	0	0	0	
7	3102-1	1 =	50.0			0			7.25		185.2	0	0	185.2	
8	-2	1 =	50.0			0			0		0	0	0	0	
9	-3	1 =	50.0			0			7.80		199.3	0	0	199.3	
10	-4	1 =	50.0			0			7.75		198.0	0	0	198.0	
11	-5	1 =	50.0			0			7.05		180.1	0	0	180.1	
12	-6	1 =	50.0			0			8.00		204.4	0	0	204.4	
13	-7	1 =	50.0			0			7.10		181.4	0	0	181.4	
14	3090-1	1 =	50.0			0			7.50		191.6	0	0	191.6	
15	-2	1 =	50.0			0			7.75		198.0	0	0	198.0	
16	-3	1 =	50.0			0			7.70		196.7	0	0	196.7	
17	-4	1 =	50.0			0			10.25		261.9	0	0	261.9	
18		1 =													
19		1 =													
20		1 =													
Dup.	3102-1	1 =	50.0			0			7.30		186.5	0	0	186.5	

Titration Results	OH^- ($CaCO_3$ mg/L)	CO_3^{2-} ($CaCO_3$ mg/L)	HCO_3^- ($CaCO_3$ mg/L)
P=0	0	0	T
P<T/2	0	2P	T-2P
P=T/2	0	2P	0
P>T/2	2P-T	2(T-P)	0
P = T	T	0	0

Calculation:

$A=S_A \cdot E_A$

$B=S_B \cdot E_B$

$P=50{,}000\ f_1\ A\ C\ /V$

$T=50{,}000\ f_1\ (A+B)\ C\ /V$

APCL Form 5-101, Nov. 29, 1999 Ver 3.2

Using blue pen. Correcting by red pen.

File: [CUST.DOC.WET]ALK.TEX

Root-File: [CUST.DOC.WET]ALK.ROOT.TEX

1-Page-File: [CUST.DOC.WET]ALK1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

pH (150.1/9045B) Worksheet

Temperature compensation must be performed by the instrument automatically. Analyst DL SOP: G-44

Batch # 03W2755 Analysis Date: 1/7/03
Starting Time: 11:36 Ending Time: :
Matrix ☒ Aaueous ☐ Soil

Standard	4.00	7.00	10.00
Lot #	1/7/03	2120	03068 9-24 ~~03068-24~~
Temperature °C		24.2	24.2
pH Reading		7.01	10.02
T-corrected pH		7.00	10.01
Control Limit	±0.05 pH unit		

#	Sample ID	Pre-treat	pH	Note
MB	T1116		6.83	
1	~~3080-13~~			
2	3080-13		8.06	
3	3105-1		8.11	
4	-2		7.83	
5	-3		8.26	
6	-4		8.37	
7	3102-1		7.89	
8	-2		7.73	
9	-3		7.56	
10	-4		7.56	
11	-5		8.03	
12	-6		7.88	
13	-7		8.00	
14				
15				
16				
17				
18				
19				
20				
Dup.	3102-1		7.82	

Batch # 03W2760 Analysis Date: 1/7/03
Starting Time: 14:40 Ending Time: :
Matrix ☐ Aaueous ☒ Soil

Standard	4.00	7.00	10.00
Lot #		2120	03068 9-24
Temperature °C		24.0	24.0
pH Reading		7.02	10.03
T-corrected pH		7.00	10.01
Control Limit	±0.05 pH unit		

#	Sample ID	Pre-treat	pH	Note
MB	0817HA		6.84	1:1
1	2979-1		8.34	
2	-2		8.87	
3	-3		9.04	
4	-4		8.22	
5	-5		9.25	
6	-6		9.15	
7	3000-1		8.91	
8	3078-7		8.44	
9	-6		8.49	
10	-8		9.25	
11	-3		8.07	
12	-2		8.77	
13	-1		8.79	
14	-5		8.77	
15	-4		8.48	
16				
17				
18				
19				
20				
Dup.	2979-1		8.26	1:1

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chromium (VI) (7196) Worksheet

Batch #03W275 Matrix: W

[Holding Time: 24 hours!!]

Test Date: 5/7/03 Analyst: [illegible]

Lot #: Reagent Water _____ Diphenylcazide solution _____

Test Time: [illegible] SOP: [illegible]

Calibration	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	A_i	$RF_i = A_i/C_i$	Calibration results	Note
STD-1	W-	× / = mg/L			Least Square [RF]=	Cal. Code:
STD-2	W-	× / = mg/L			Average $\bar{RF}$=	
STD-3	W-	× / = mg/L			C.C.= (≥ 0.995)	
STD-4	W-	× / = mg/L			RSD= % (≤ 15%)	
STD-5	W-	× / = mg/L			Ref. page	
STD-6	W-	× / = mg/L			A=0.000+0.896c	

Analysis Type	Sample ID or Lot #	Samp. Amnt X_0 (g or mL)	Dilu./Ext $X/X_0=f_1$	Treat. Ratio $V/X=f_2$	540 nm A	Concentration $C'=A/\bar{RF}$	C (Sample) $C=f_1 f_2 C'$	Anom Not
CCV	Lot: W-7853	Expected Conc.:	×	/ =0.25 mg/L	0.204	0.244 mg/L	REC. %	90-110
Method Blank	Bl. Lot: T1116		/X₀ = 1	95.0/ =	0.000	mg/L	0.000 ppm	
LCS1	Bl. Lot: "		/X₀ =	95.0/ =	0.223	mg/L	0.267 ppm	
Sample-1 EB	3102-2		/X₀ =	95.0/ =	0.000	mg/L	0.000 ppm	
MS on S-1	1		/X₀ =	95.0/ =	0.190	mg/L	0.227 ppm	
MSD on S-1	1		/X₀ =	95.0/ =	0.195	mg/L	0.233 ppm	
Sample 2 Dup	1		/X₀ =	95.0/ =	0.003	mg/L	0.004 ppm	
Sample 3 1	3		/X₀ =	95.0/ =	0.003	mg/L	0.004 ppm	
Sample 4 2	4		/X₀ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 5 3	5		/X₀ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 6 4	6		/X₀ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 7 5	7		/X₀ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 8			/X₀ =	95.0/ =		mg/L	ppm	
Sample 9			/X₀ =	95.0/ =		mg/L	ppm	
Sample 10			/X₀ =	95.0/ =		mg/L	ppm	
Blank	Lot:		/X₀ =	95.0/ =		mg/L	ppm	
LCS2	Bl. Lot: T1116		/X₀ =1	95.0/ =	0.226	mg/L	0.270 ppm	
Sample 11			/X₀ =	95.0/ =		mg/L	ppm	
Sample 12			/X₀ =	95.0/ =		mg/L	ppm	
Sample 13			/X₀ =	95.0/ =		mg/L	ppm	
Sample 14			/X₀ =	95.0/ =		mg/L	ppm	
Sample 15			/X₀ =	95.0/ =		mg/L	ppm	
Sample 16			/X₀ =	95.0/ =		mg/L	ppm	
Sample 17			/X₀ =	95.0/ =		mg/L	ppm	
Sample 18			/X₀ =	95.0/ =		mg/L	ppm	
Sample 19			/X₀ =	95.0/ =		mg/L	ppm	
Sample 20			/X₀ =	95.0/ =		mg/L	ppm	
MTX Dup. Closing 0.25 mg/L			/X₀ =	95.0/ =	0.210	0.251 mg/L	ppm	

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
MS	W-7853	× / = 0.25 ppm	%	80-120 %/80-120 %
MSD	W- "	× / = ppm	%	.. ..
LCS	W-7759	× / = ppm	%	80-120 %/80-120 %
LCSD	W- "	× / = ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	0.01
PQL(s)	0.05
MDL(w)	0.005
MDL(s)	0.025

APCL form 5-155 May 08, 1996. Ver. 3.1 No pencil. Use blue pen for record. Use red pen for correction.
File:[CUST.DOC.WET]CR6.TEX Root-file: CR6_ROOT.TEX 1-Page-File: CR61.TEX
Control limits are subjected to change. The updated values are given in the latest version of APCL Technical Handbook Vol. 2

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chromium (VI) (7196) Worksheet

Batch # 03W1295 Matrix: W [Holding Time: 24 hours!!] Test Date: 1/29/03 Analyst: BN

Lot #: Reagent Water _____ Diphenylcazide solution _____ Test Time: _____ SOP: G-22

Calibration	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	A_i	$RF_i = A_i/C_i$	Calibration results	Note
STD-1	W-7191	× / =0.000mg/L	0.000		Least Square [RF]=	Cal. Code:
STD-2	W-	× / =0.025mg/L	0.006		Average $\bar{RF}$=	A=0.000+0.836C
STD-3	W-	× / =0.050mg/L	0.041		C.C.=0.9717 (≥ 0.995)	
STD-4	W-	× / =0.125mg/L	0.109		RSD= % (≤ 15%)	
STD-5	W-	× / =0.250mg/L	0.214		Ref. page	
STD-6	W- ✓	× / =0.500mg/L	0.415		A=0.003+0.816C 1/29/03	

Analysis Type	Sample ID or Lot #	Samp. Amnt X_0 (g or mL)	Dilu./Ext $X/X_0=f_1$	Treat. Ratio $V/X=f_2$	540 nm A	Concentration $C'=A/\bar{RF}$	C (Sample) $C=f_1 f_2 C'$	Anomaly Note
CCV	Lot: W-7076	Expected Conc.:	×	/ =0.25 mg/L	0.216	0.258 mg/L	REC. %	90-110 %
Method Blank	Bl. Lot: T1115		$/X_0$ = 1	95.0/ =	0.000	mg/L	0.00 ppm	
LCS1	Bl. Lot: "		$/X_0$ =	95.0/ =	0.204	mg/L	0.244 ppm	
Sample-1	1369-1		$/X_0$ =	95.0/ =	0.000	mg/L	0.00 ppm	
MS on S-1	6		$/X_0$ =	95.0/ =	0.223	mg/L	0.266 ppm	
MSD on S-1	6		$/X_0$ =	95.0/ =	0.230	mg/L	0.275 ppm	
Sample 2	2		$/X_0$ =	95.0/ =	0.004	mg/L	0.005 ppm	
Sample 3	3		$/X_0$ =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 4	4		$/X_0$ =	95.0/ =	0.001	mg/L	0.001 ppm	
Sample 5	5		$/X_0$ =	95.0/ =	0.002	mg/L	0.002 ppm	
Sample 6	6		$/X_0$ = ✓	95.0/ =	0.004	mg/L	0.005 ppm	
Sample 7	-		$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 8			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 9			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 10			$/X_0$ =	95.0/ =		mg/L	ppm	
Blank	Lot:		$/X_0$ =	95.0/ =		mg/L	ppm	
LCS2	Bl. Lot: T1115		$/X_0$ = 1	95.0/ =	0.210	mg/L	0.251 ppm	
Sample 11			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 12			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 13			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 14			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 15			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 16			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 17			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 18			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 19			$/X_0$ =	95.0/ =		mg/L	ppm	
Sample 20			$/X_0$ =	95.0/ =		mg/L	ppm	
MTX Dup.	closing 0.25 mg/L		$/X_0$ =	95.0/ =	0.204	mg/L	0.248 ppm	

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
MS	W-7076	× / =0.25 ppm	%	80-120 %/80-120 %
MSD	W- ✓	× / = ppm	%	.. ..
LCS	W-7191	× / = ppm	%	80-120 %/80-120 %
LCSD	W- ✓	× / = ✓ ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	0.01
PQL(s)	0.05
MDL(w)	0.005
MDL(s)	0.025

APCL form 5-155 May 08, 1996. Ver. 3.1 No pencil. Use blue pen for record. Use red pen for correction.
File:[CUST.DOC.WET]CR6.TEX Root-file: CR6_ROOT.TEX 1-Page-File: CR61.TEX
Control limits are subjected to change. The updated values are given in the latest version of APCL Technical Handbook Vol. 2

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Solid Analysis (160.1, 160.2, 160.3) Worksheet

Batch #13W2783 Matrix W Method: 160.1 Balance No. _____ Date: 5/8/03 Analyst: DC

EPA 160.1 TDS – Total Dissolved (filterable) Solids — Dry for 1hr. or more at 180 °C

EPA 160.2 TSS – Total Suspended (nonfilterable) Soilds — Dry for 1hr. or more at 103-105 °C

EPA 160.3 TS – Total Solids — Dry for 1hr. or more at 103-105 °C

Other method (specify):

Result= $10^6 \times \Delta W \times f_1 / V$ SOP: G-81

#	Analysis Type	Sample ID (STD Lot #)	Treatment Ratio $V_1/X=f_1$	Volume V, mL	W_1 g	W_2 1st, g	W_2 2nd, g	$\Delta W = W_2 - W_1$, g	Results (ppm)	Note
1	Blank	T1116	1 =	100	115.3129	115.3129	115.3130	0.0001	1	38
2	LCS	T1116	1 =	100	114.1692	114.2106	114.2104	0.0412	412	41
3	Sample-1	3112-2	1 =	100	108.5429	108.5762	108.5764	0.0335	335	1P
4	MS on S-1	3082-4	1 =	100	115.1170	115.1752	115.1757	0.0631	631	G
5	MSD on S-1	↓ -4	1 =	100	114.7521	114.8142	114.8140	0.0619	619	XX
6	Sample-2	3113-7	1 =	100	112.2714	112.3019	112.3018	0.0304	304	24
7	Sample-3	3105-1	1 =	100	114.7844	114.8381	114.8380	0.0536	536	12
8	Sample-4	-2	1 =	100	111.7980	111.8336	111.8334	0.0354	317	R
9	Sample-5	-3	1 =	100	112.9022	112.9480	112.9439	0.0417	417	本
10	Sample-6	↓ -4	1 =	100	117.8990	117.9218	117.9217	0.0227	227	7
11	Sample-7	3102-1	1 =	100	116.0654	116.0921	116.0920	0.0266	266	31
12	Sample-8	-2	1 =	100	117.6086	117.6089	117.6088	0.0002	2	XS
13	Sample-9	-3	1 =	100	116.9500	116.9869	116.9868	0.0368	368	W
14	Sample-10	-4	1 =	100	99.0897	99.1215	99.1213	0.0316	316	42
15	LCSD	T1116	1 =	100	103.9474	103.9864	103.9864	0.0390	390	14
16	Sample-11	3102-5	1 =	100	103.5398	103.5647	103.5646	0.0248	248	76
17	Sample-12	-6	1 =	100	114.3109	114.3386	114.3386	0.0277	277	11
18	Sample-13	-7	1 =	100	115.3243	115.3495	115.3495	0.0252	252	12
19	~~[illegible]~~	3090-1	3082-1	100	116.6615	116.6617	116.6616	0.0001	1	ZS
20	Sample-15	3082-2	1 =	100	115.1376	115.1698	115.1699	0.0323	323	10
21	Sample-16	-3	1 =	100	115.2417	115.2635	115.2632	0.0215	215	J
22	Sample-17	↓ -4	1 =	100	107.7129	107.7351	107.7351	0.0222	222	0
23	~~[illegible]~~	~~3086-1~~	5/8/03 DC	100	105.9092	105.9848	105.9848	0.0756	756	19
24	Sample-19	3082-5	1 =	100	121.3345	121.3466	121.3465	0.0120	120	I
25	Sample-20	↓ -6	1 =	100	115.8921	115.9079	115.9077	0.0156	156	CK
	Mix Dup.		1 =							

Type	STD Lot #	$C_{STD}(\mu g/mL) \times V_{STD}(mL)/X(g \text{ or } mL) = T$	Spike Rec.	Ctl Limit (W/S)
	W- 7618	× 1 = 400 ppm	%	85-115 %/80-120 %
	W- ↓	× 1 = ↓ ppm	%	.. ..
	W- 7619	× 1 = ppm	%	90-110 %/85-115 %
	W- ↓	× 1 = ↓ ppm	%	.. ..

PQL/MDL (in ppm)	
PQL(w)	10
PQL(s)	50
MDL(w)	4
MDL(s)	20

Form S-127, March 7, 1995. Ver. 3.0 No pencil. Use blue pen for record. Use red pen for correction.

[GUST.DOC.WET]TDS .TEX ROOT-FILE: TDS-ROOT.TEX CONTROL-FILE: TDS.000 1-Page file: TDS1.TEX

Limits are subjected to change. The updated values are given in the latest version of APCL Technical Handbook Vol. 2

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

6050

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
5/7/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0001	200.0000	✓✓✓	1/✓
	~~A-02~~					B-05	1.00	10.00	200.01	✓✓✓	C-02	1.0001	10.0000	200.0001	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	9.99	200.00	✓✓✓	C-					
	A-04			5/7/03		B-07	1.00	10.00	200.00	✓✓✓	C-			5/7/03		
	A-		5/7/03			B-			5/7/03		C-		5/7/03			
	A-					B-		5/7/03			C-					
5/8/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0001	200.0000	✓✓✓	1/2
	~~A-02~~					B-05	1.00	10.00	200.00	✓✓✓	C-02	1.0001	10.0000	200.0000	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-04			5/8/03		B-07	1.00	10.00	200.00	✓✓✓	C-			5/8/03		
	A-		5/8/03			B-			5/8/03		C-		5/8/03			
	A-					B-		5/8/03			C-					
5/9/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	1/2
	~~A-02~~					B-05	1.00	10.00	200.00	✓✓✓	C-02	1.0001	10.0001	199.9998	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-04			5/9/03		B-07	1.00	10.00	200.00	✓✓✓	C-			5/9/03		
	A-		5/9/03			B-			5/9/03		C-		5/9/03			
	A-					B-		5/9/03			C-					
5/12/03	A-01	not	in	use	✓	B-01	1.00	10.01	200.00	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	1/2
	~~A-02~~					B-05	1.00	10.00	200.00	✓✓✓	C-02	1.0001	10.0001	199.9999	✓✓✓	
	A-03	1.00	9.99	200.00	✓	B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-04			5/12/03		B-07	1.00	10.00	200.00	✓✓✓	C-			5/12/03		
	A-		5/12/03			B-			5/12/03		C-		5/12/03			
	A-					B-		5/12/03			C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL form 4-213, March 30, 1995. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.LAB]BAL_CAL.TEX Root-File: BAL_CAL_ROOT.TEX 1-Page-File: BAL_CAL1.TEX

e	Sample	Sample Type	Level	Method	Data File	Volume
	##03w2804kw ipc 25ppb w7759	Sample		e314-011.met	c:\data\03w2804k\w2804k ipc 25ppb_001.dxd	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2804k\w2804k q01	1
	ccb	Sample		e314-011.met	c:\data\03w2804k\w2804k ccb01_003.dxd	1
	lcs 25ppb w7827d	Sample		e314-011.met	c:\data\03w2804k\w2804k l01_004.dxd	1
	LCS 18PPB W7685D	Sample		e314-011.met	c:\data\03w2804k\w2804k j01_005.dxd	1
	ICCS 4ppb w7827b	Sample		e314-011.met	c:\data\03w2804k\w2804k iccs 4ppb_006.dxd	1
	mb	Sample		e314-011.met	c:\data\03w2804k\w2804k k01_007.dxd	1
	3152-01 F=1	Sample		e314-011.met	c:\data\03w2804k\3152-01_008.dxd	1
	3152-02 f=1	Sample		e314-011.met	c:\data\03w2804k\3152-02_009.dxd	1
	3152-03 F=1	Sample		e314-011.met	c:\data\03w2804k\3152-03_010.dxd	1
	3152-04 F=1	Sample		e314-011.met	c:\data\03w2804k\3152-04_011.dxd	1
	3152-05 f=1	Sample		e314-011.met	c:\data\03w2804k\3152-05_012.dxd	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2804k\w2804k q02_013.dxd	1
	ccb	Sample		e314-011.met	c:\data\03w2804k\w2804k k02_014.dxd	1
	3152-06 f=1	Sample		e314-011.met	c:\data\03w2804k\3152-06_015.dxd	1
	3082-04 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-04_016.dxd	1
	3082-01 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-01_017.dxd	1
	3082-04 MS 50PPB F=1	Sample		e314-011.met	c:\data\03w2804k\w2804k m01_018.dxd	1
	3082-04 MSD 50PPB F=1	Sample		e314-011.met	c:\data\03w2804k\w2804k n01_019.dxd	1
	3082-02 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-02_020.dxd	1
	3082-03 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-03_021.dxd	1
	3082-05 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-05_022.dxd	1
	3082-06 F=1	Sample		e314-011.met	c:\data\03w2804k\3082-06_023.dxd	1
	ccv 50ppb w7827e	Sample		e314-011.met	c:\data\03w2804k\w2804k q03_024.dxd	1
	CCB	Sample		e314-011.met	c:\data\03w2804k\w2804k k03_025.dxd	1
	3102-01 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-01_026.dxd	1
	3102-02 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-02_027.dxd	1
	3102-03 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-03_028.dxd	1
	3102-04 f=1	Sample		e314-011.met	c:\data\03w2804k\3102-04_029.dxd	1
	3102-05 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-05_030.dxd	1
	3102-06 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-06_031.dxd	1
	3102-07 F=1	Sample		e314-011.met	c:\data\03w2804k\3102-07_032.dxd	1
	CCV 50PPB W7827E	Sample		e314-011.met	c:\data\03w2804k\w2804k q04_033.dxd	1
		Sample		aastopcl.met		1

nalyst Wei Wey

ate 5/9/03

nstrument ZC-K

6051

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution
1	Cal blank	Sample		e314-011.met	c:\data\e314-011\mb_001.dxd	1	1
2	cal standard 2ppb W7827a	Sample		e314-011.met	c:\data\e314-011\std-2pb_002.dxd	1	1
3	cal standard 4ppb W7827b	Sample		e314-011.met	c:\data\e314-011\std-4pb_003.dxd	1	1
4	cal standard 10ppb W7827c	Sample		e314-011.met	c:\data\e314-011\std-10pb_004.dxd	1	1
5	cal standard 25ppb W7827d	Sample		e314-011.met	c:\data\e314-011\std-25pb_005.dxd	1	1
6	cal standard 50ppb W7827e	Sample		e314-011.met	c:\data\e314-011\std-50pb_006.dxd	1	1
7	cal standard 75ppb W7827f	Sample		e314-011.met	c:\data\e314-011\std-75pb_007.dxd	1	1
8	cal standard 100ppb W7827g	Sample		e314-011.met	c:\data\e314-011\std-100pb_008.dxd	1	1
9	ICV 50 ppb w7828a	Sample		e314-011.met	c:\data\e314-011\icv-50pb_009.dxd	1	1
0	icb	Sample		e314-011.met	c:\data\e314-011\icb_010.dxd	1	1
1	anion 100pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-100_011.dxd	1	1
2	anion 200pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-200_012.dxd	1	1
3	anion 300pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-300_013.dxd	1	1
4	anion 400pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-400_014.dxd	1	1
5	anion 500pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-500_015.dxd	1	1
6	anion 600pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-600_016.dxd	1	1
7	anion 800pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-800_017.dxd	1	1
8	anion 1000pm each ,25pb CLO4	Sample		e314-011.met	c:\data\e314-011\mct-1000_018.dxd	1	1
9	anion 400pm each 2pb	Sample		e314-011.met	c:\data\e314-011\ipc-2pb_019.dxd	1	1
0	anion 400pm each 4pb	Sample		e314-011.met	c:\data\e314-011\ipc-4pb_020.dxd	1	1
1	anion 400pm each 25pb	Sample		e314-011.met	c:\data\e314-011\ipc-25pb_021.dxd	1	1
2	ICV 50 ppb	Sample		e314-011.met	c:\data\e314-011\ccv-50pb	1	1
3	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-02_023.dxd	1	1
4	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-03_024.dxd	1	1
5	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-04	1	1
6	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-05	1	1
7	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-06	1	1
8	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-07	1	1
9	MDL 4pb	Sample		e314-011.met	c:\data\e314-011\mdl-08	1	1
0	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
1	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
2	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
3	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
4	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
5	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
6	IDP and IDA 25pb	Sample		e314-011.met	c:\data\e314-011\idap-25pb	1	1
7	MCT anion 800pm each, 25pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-25pb	1	1
8	MCT anion 800pm each, 25pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-25pb	1	1
9	MCT anion 800pm each, 4pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-4pb	1	1
0	MCT anion 800pm each, 4pbCLO4	Sample		e314-011.met	c:\data\e314-011\ipc-4pb	1	1
1	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s01	1	5
2	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s02	1	5
3	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s03	1	5
4	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s04	1	5
5	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s05	1	5
6	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s06	1	5
7	MDL 20pb soil	Sample		e314-011.met	c:\data\e314-011\mdl-s07	1	5
8	standard 25ppb W7827d	Sample		e314-011.met	c:\data\e314-011\std-25pb	1	1
9	anion 100pm each,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-100-4pb	1	1
0	anion 200pm each ,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-200-4pb	1	1
1	anion 300pm each ,4pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-300-4pb	1	1
2	anion 100pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-100-2pb	1	1
3	anion 200pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-200-2pb	1	1
4	anion 300pm each,2pb CLO4	Sample		e314-011.met	c:\data\e314-011\am-300-2pb	1	1
5	1982-01 B S.C 4450us/cm	Sample		e314-011.met	c:\data\e314-011\1982-01	1	1
6	1982-01 B S.C 4450us/cm	Sample		e314-011.met	c:\data\e314-011\1982-01	1	2
7	1982-02 f=10	Sample		e314-011.met	c:\data\e314-011\1982-02_057.dxd	1	10
8		Sample		aastopcl.met		1	1

DIONEX SCHEDULE - C:\DX\SCHEDULE\E300-063.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	autocal1r	..\E300-063	..\W7767Q01.D01	1	1	1
2	autocal2r	..\E300-063	..\W7767Q01.D02	1	1	1
3	autocal3r	..\E300-063	..\W7767Q01.D03	1	1	1
4	autocal4r	..\E300-063	..\W7767Q01.D04	1	1	1
5	autocal5r	..\E300-063	..\W7767Q01.D05	1	1	1
6	autocal6r	..\E300-063	..\W7767Q01.D06	1	1	1
7	icv-w7768-100X	..\E300-063	..\W7768Q01.D07	1	1	1
8	icb	..\E300-063	..\W7767Q01.D08	1	1	1

Comment:

Analyst DL

Date 3/21/03

Instrument J

DIONEX SCHEDULE - C:\DX\SCHEDULE\03W2777.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	##03W2777, W CCVW77	..\E300-063	..\W2777Q01.D01	1	1	1
2	MB RW1410	..\E300-063	..\W2777K01.D02	1	1	1
3	LCS W7768-100X	..\E300-063	..\W2777L01.D03	1	1	1
4	LCSD W7768-100X	..\E300-063	..\W2777J01.D04	1	1	1
5	3102-1 F=2.5	..\E300-063	..\3102-101.D05	1	2.5	1
6	3102-3 F=4	..\E300-063	..\3102-301.D06	1	4	1
7	3102-4 F=2.5	..\E300-063	..\3102-401.D07	1	2.5	1
8	3102-5 F=2.5	..\E300-063	..\3102-501.D08	1	2.5	1
9	3102-6 F=2.5	..\E300-063	..\3102-601.D09	1	2.5	1
10	3102-7 F=2.5	..\E300-063	..\3102-701.D10	1	2.5	1
11	3102-2 F=1.25	..\E300-063	..\3102-201.D11	1	1.25	1
12	CCV2W7767-100X	..\E300-063	..\W2777Q01.D12	1	1	1
13	MB RW1410	..\E300-063	..\W2777K11.D13	1	1	1
14	$3130-2 MS F=25	..\E300-063	..\W2777M01.D14	1	25	1
15	$3130-2 MSD F=25	..\E300-063	..\W2777N01.D15	1	25	1
16	3130-2 F=12.5	..\E300-063	..\3130-201.D16	1	12.5	1
17	3130-3 F=5	..\E300-063	..\3130-301.D17	1	5	1
18	3130-4 F=5	..\E300-063	..\3130-401.D18	1	5	1
19	3130-5 F=2	..\E300-063	..\3130-501.D19	1	2	1
20	3130-6 F=2	..\E300-063	..\3130-601.D20	1	2	1
21	3130-1 F=1.25	..\E300-063	..\3130-101.D21	1	1.25	1
22	CCV3W7767-100X	..\E300-063	..\W2777Q01.D22	1	1	1
23		..\STOP.MET		1	1	1

Comment:
LCS/LCSD LOT # W7768
MS/MSD LOT # W7767
ELUENT LOT # W7868
ANALYTICAL METHOD 9056/E300 MATRIX W

Analyst DN
Date 1/8/03
Instrument J