This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

**Document number:** SD-WM-DP-145

**Section** 3 **of** 12

**Title:** REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

**Date:** 02/02/96 **Revision:** R001

**Originator:** BALDWIN JH
**Co:** WHC

**Recipient:**
**Co:**

**References:** ECN-629001

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# LABCORE Data Entry Template for Worklist# 2880

**Analyst:** D K SATO **Instrument:** ICP01 **Book#** 48B 48B

**Method:** LA-505-151/~~161~~ Rev/Mod D-3

**Worklist Comment:** ICP BY-108 (ACID DIGEST)

| S | Type | Sample# | R | A | Test | Matrix | Group# | Project |
|---|---|---|---|---|---|---|---|---|
| 1 | ICV | | | | @ICP-QC | QC | | |
| 2 | ICB | | | | @ICP-QC | QC | | |
| 3 | ICSA | | | | @ICP-QC | QC | | |
| 4 | ICSAB | | | | @ICP-QC | QC | | |
| 5 | PREPSTDARL | | | | @ICP-A01 | SOLID | | |
| 6 | PREPBLKARL | | | | @ICP-A01 | SOLID | | |
| 7 | SAMPLE | S95T002171 | 0 | A | @ICP-A01 | SOLID | 95000118 | BY-108 (R) |
| | **Analytes Requested:** | AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01 | | | | | | |
| 8 | DUP | S95T002171 | 0 | A | @ICP-A01 | SOLID | | |
| 9 | SPK-PREDIG | S95T002171 | 0 | A | @ICP-A01 | SOLID | | |
| 10 | CCV | | | | @ICP-QC | QC | | |
| 11 | CCB | | | | @ICP-QC | QC | | |
| 12 | SAMPLE | S95T002172 | 0 | A | @ICP-A01 | SOLID | 95000118 | BY-108 (R) |
| | **Analytes Requested:** | AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01 | | | | | | |

*Data Entry Comments:*

*S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

**LABCORE Data Entry Template for Worklist# 2880**

| S | Type | Sample# | R | A | Test | Matrix | Group# | Project |
|---|---|---|---|---|---|---|---|---|
| 13 | DUP | S95T002172 | 0 | A | @ICP-A01 | SOLID | | |
| 14 | ICSA | | | | @ICP-QC | QC | | |
| 15 | ICSAB | | | | @ICP-QC | QC | | |
| 16 | CCV | | | | @ICP-QC | QC | | |
| 17 | CCB | | | | @ICP-QC | QC | | |

**Final page for worklist # 2880**

JK Lab 10-25-95
Analyst Signature Date

Reviewed by: Samuel M. Parry 10/26/95
Analyst Signature Date

Prep std QRL 5 ml each, WHC 1G + 2, in 100 ml
Prep blk QRL Direct

S95T002171_L, .8055 g → 100 ml, 1-4-2-8, (100 x 50)/.8055 = 6207.3
S95T002171 .8055 → 100 1-4 (100 x 10)/.8055 = 1241.5
S95T002171_D .8127 → 100 1-4 (100 x 10)/.8127 = 1230.5
S95T002171_S .8348 → 100 1-4 (100 x 10)/.8348 = 1197.9 ~~1 ml sample + 2 ml SRS + 7 ml H2O~~ 10-25-95

S95T002172_L, .1448 g → 100 ml, 4-4-2-8, (100 x 10)/.1448 = 5133.5
S95T002172 .1448 → 100 4-4 (100 x 2)/.1448 = 1024.7
S95T002172_D .2074 → 100 4-4 (100 x 2)/.2074 = 963.4

*Data Entry Comments:*

*S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

F/C. 951023 a



Identity 1: ICV  Identity 2: Quality Control  12:15 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.951 | 4.967 | 5.018 | 4.922 | 4.996 | 5.042 | 5.045 | 5.013 |
| S.D. | 0.004 | 0.008 | 0.005 | 0.006 | 0.007 | 0.012 | 0.013 | 0.037 |
| % R.S.D. | 0.076 | 0.158 | 0.102 | 0.124 | 0.140 | 0.230 | 0.266 | 0.733 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 5.077 | 5.036 | 5.035 | 5.145 | 5.022 | 5.070 | 5.284 | 9.526 |
| S.D. | 0.010 | 0.007 | 0.012 | 0.026 | 0.009 | 0.004 | 0.014 | 0.012 |
| % R.S.D. | 0.193 | 0.134 | 0.231 | 0.499 | 0.186 | 0.086 | 0.265 | 0.125 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 5.056 | 4.858 | 4.967 | 5.051 | 4.975 | 4.923 | 5.080 | 4.980 |
| S.D. | 0.006 | 0.004 | 0.011 | 0.124 | 0.026 | 0.004 | 0.015 | 0.035 |
| % R.S.D. | 0.111 | 0.075 | 0.214 | 2.455 | 0.527 | 0.076 | 0.295 | 0.699 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 5.004 | 5.208 | 4.987 | 5.099 | 4.821 | 5.074 | 5.093 | 5.109 |
| S.D. | 0.011 | 0.015 | 0.007 | 0.004 | 0.003 | 0.013 | 0.015 | 0.053 |
| % R.S.D. | 0.224 | 0.286 | 0.142 | 0.081 | 0.067 | 0.256 | 0.297 | 1.033 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 5.054 | 4.739 | 4.981 | 5.181 | 4.912 |
| S.D. | 0.011 | 0.020 | 0.005 | 0.004 | 0.021 |
| % R.S.D. | 0.217 | 0.418 | 0.101 | 0.071 | 0.423 |

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DK 10-25-95  LMCS ✓ DKL

BJ-108 595T00171
595T00172

Worklist # 2880

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 610 TO 628.

Identity 1: ICB  Identity 2: Quality Control  12:19 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000  Solution Volume : 1.00

On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.001 | 0.000 | -0.026 | 0.005 | -0.009 | -0.001 | -0.000 | 0.000 |
| S.D. | 0.001 | 0.000 | 0.010 | 0.002 | 0.002 | 0.002 | 0.000 | 0.000 |
| % R.S.D. | 136.156 | 156.125 | 36.259 | 45.118 | 25.787 | 173.721 | 309.543 | 64.282 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.001 | 0.001 | 0.002 | -0.003 | 0.001 | -0.001 | 0.006 | -0.035 |
| S.D. | 0.000 | 0.001 | 0.001 | 0.002 | 0.000 | 0.001 | 0.002 | 0.026 |
| % R.S.D. | 45.431 | 134.370 | 50.840 | 81.153 | 12.011 | 177.952 | 39.074 | 75.192 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.014 | -0.012 | -0.000 | -0.001 | 0.001 | 0.000 | -0.002 | 0.002 |
| S.D. | 0.009 | 0.006 | 0.000 | 0.006 | 0.003 | 0.000 | 0.002 | 0.005 |
| % R.S.D. | 63.977 | 50.604 | 350.000 | 395.515 | 248.847 | 34.641 | 156.258 | 251.622 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.001 | -0.003 | -0.000 | -0.003 | -0.000 | 0.000 | 0.003 | -0.045 |
| S.D. | 0.001 | 0.019 | 0.001 | 0.010 | 0.000 | 0.000 | 0.001 | 0.009 |
| % R.S.D. | 75.255 | 624.525 | 298.320 | 363.377 | 211.971 | 86.916 | 30.171 | 19.877 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.000 | 0.011 | -0.003 | 0.000 | -0.027 |
| S.D. | 0.000 | 0.012 | 0.001 | 0.000 | 0.012 |
| % R.S.D. | 97.633 | 109.002 | 24.964 | 0.890 | 42.918 |

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Identity 1: ICSA  Identity 2: Quality Control  12:21 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.007 | 0.002 | -0.037 | 0.031 | 198.160 | 0.000 | 0.003 | 0.000 |
| S.D. | 0.001 | 0.000 | 0.003 | 0.005 | 0.224 | 0.002 | 0.000 | 0.000 |
| % R.S.D. | 8.826 | 3.571 | 7.446 | 14.653 | 0.113 | 12738.602 | 10.667 | 72.092 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.005 | 0.007 | 0.008 | 97.157 | 99.275 | 0.000 | 0.001 | -0.019 |
| S.D. | 0.000 | 0.001 | 0.001 | 0.186 | 0.116 | 0.002 | 0.012 | 0.020 |
| % R.S.D. | 5.563 | 12.867 | 16.477 | 0.191 | 0.116 | 768.394 | 1496.951 | 107.401 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.009 | 0.022 | 0.004 | 0.038 | 0.009 | 101.554 | 0.026 | 182.824 |
| S.D. | 0.007 | 0.003 | 0.000 | 0.008 | 0.012 | 0.257 | 0.008 | 0.404 |
| % R.S.D. | 71.830 | 13.565 | 3.045 | 22.014 | 143.891 | 0.253 | 30.496 | 0.221 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.001 | 0.010 | 0.002 | -0.008 | 0.000 | 0.001 | 0.015 | -0.043 |
| S.D. | 0.001 | 0.010 | 0.000 | 0.018 | 0.000 | 0.000 | 0.000 | 0.003 |
| % R.S.D. | 65.459 | 98.370 | 14.980 | 214.591 | 64.365 | 28.809 | 2.449 | 7.900 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.008 | 0.285 | -0.000 | 0.003 | -0.012 |
| S.D. | 0.001 | 0.025 | 0.000 | 0.000 | 0.012 |
| % R.S.D. | 6.820 | 8.803 | 113.300 | 8.754 | 94.782 |

Identity 1: ICSAB  Identity 2: Quality Control  12:24 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.003 | 0.002 | -0.048 | 0.030 | 198.593 | 0.477 | 0.500 | 0.919 |
| S.D. | 0.000 | 0.000 | 0.002 | 0.002 | 0.594 | 0.003 | 0.002 | 0.003 |
| % R.S.D. | 14.228 | 3.448 | 4.861 | 5.612 | 0.299 | 0.601 | 0.345 | 0.357 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.972 | 0.963 | 0.007 | 97.102 | 100.293 | 0.486 | -0.002 | -0.062 |
| S.D. | 0.002 | 0.004 | 0.002 | 0.219 | 0.378 | 0.003 | 0.013 | 0.030 |
| % R.S.D. | 0.224 | 0.406 | 34.809 | 0.226 | 0.377 | 0.650 | 824.740 | 47.972 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.013 | 0.014 | 0.499 | 0.063 | 0.004 | 101.708 | 0.022 | 186.603 |
| S.D. | 0.007 | 0.006 | 0.002 | 0.016 | 0.005 | 0.210 | 0.002 | 0.462 |
| % R.S.D. | 56.069 | 41.189 | 0.384 | 25.805 | 109.281 | 0.206 | 7.613 | 0.248 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.001 | 0.048 | 1.004 | 0.984 | -0.000 | 0.983 | 0.014 | -0.077 |
| S.D. | 0.001 | 0.007 | 0.001 | 0.009 | 0.000 | 0.003 | 0.001 | 0.008 |
| % R.S.D. | 61.622 | 13.496 | 0.133 | 0.924 | 71.802 | 0.275 | 6.529 | 10.355 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.501 | 0.295 | 0.481 | 0.493 | 0.026 |
| S.D. | 0.000 | 0.017 | 0.001 | 0.001 | 0.012 |
| % R.S.D. | 0.072 | 5.786 | 0.290 | 0.191 | 46.020 |

Identity 1: PREPSTDARL Identity 2: 5ml ea whc1a&2 in100 12:30 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.781 | 4.828 | 4.659 | 17.564 | 5.235 | 4.883 | 4.742 | 4.722 |
| S.D. | 0.009 | 0.011 | 0.013 | 0.033 | 0.012 | 0.017 | 0.013 | 0.018 |
| % R.S.D. | 0.187 | 0.221 | 0.276 | 0.186 | 0.223 | 0.354 | 0.266 | 0.392 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.769 | 4.906 | 4.924 | 4.988 | 5.090 | 4.915 | 5.075 | 9.498 |
| S.D. | 0.010 | 0.001 | 0.012 | 0.020 | 0.012 | 0.015 | 0.017 | 0.026 |
| % R.S.D. | 0.206 | 0.024 | 0.238 | 0.397 | 0.234 | 0.310 | 0.327 | 0.275 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.900 | 4.744 | 4.795 | 4.801 | 4.625 | 4.827 | 4.852 | 5.713 |
| S.D. | 0.009 | 0.010 | 0.011 | 0.029 | 0.048 | 0.006 | 0.024 | 0.025 |
| % R.S.D. | 0.185 | 0.214 | 0.232 | 0.603 | 1.041 | 0.129 | 0.498 | 0.445 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.830 | 4.982 | 0.934 | 4.799 | 4.644 | 4.806 | 6.218 | 4.807 |
| S.D. | 0.008 | 0.039 | 0.001 | 0.046 | 0.007 | 0.007 | 0.019 | 0.014 |
| % R.S.D. | 0.160 | 0.783 | 0.138 | 0.950 | 0.157 | 0.148 | 0.301 | 0.300 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 4.935 | 4.523 | 4.809 | 5.225 | 4.572 |
| S.D. | 0.008 | 0.008 | 0.007 | 0.005 | 0.006 |
| % R.S.D. | 0.167 | 0.167 | 0.155 | 0.093 | 0.127 |

Identity 1: PREPBLK Identity 2: Quality Control 12:38 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.000 | 0.001 | 0.001 | 0.066 | 0.015 | 0.007 | 0.006 | 0.002 |
| S.D. | 0.002 | 0.000 | 0.002 | 0.001 | 0.001 | 0.002 | 0.000 | 0.000 |
| % R.S.D. | 421.296 | 23.593 | 195.922 | 2.286 | 6.094 | 24.700 | 7.029 | 15.927 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.009 | 0.001 | 0.000 | 0.024 | 0.083 | 0.006 | 0.017 | -0.097 |
| S.D. | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.001 | 0.009 | 0.053 |
| % R.S.D. | 3.946 | 61.777 | 197.070 | 3.173 | 0.555 | 19.913 | 50.332 | 54.989 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.052 | -0.021 | 0.002 | 0.055 | 0.043 | 0.014 | 0.005 | 0.337 |
| S.D. | 0.013 | 0.010 | 0.000 | 0.018 | 0.004 | 0.000 | 0.002 | 0.001 |
| % R.S.D. | 25.179 | 46.848 | 17.281 | 32.318 | 10.273 | 0.651 | 38.701 | 0.344 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.002 | 0.013 | 0.004 | 0.018 | 0.000 | 0.004 | 0.101 | -0.034 |
| S.D. | 0.001 | 0.009 | 0.001 | 0.012 | 0.000 | 0.001 | 0.000 | 0.015 |
| % R.S.D. | 47.180 | 68.592 | 25.292 | 65.267 | 614.201 | 15.063 | 0.474 | 44.402 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.001 | 0.053 | 0.002 | -0.000 | 0.008 |
| S.D. | 0.000 | 0.014 | 0.001 | 0.000 | 0.027 |
| % R.S.D. | 44.388 | 25.781 | 68.386 | 54.989 | 342.257 |

Identity 1: S95T002171_L Identity 2: .8055gin100,1-9-2-8 12:42 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8055 Solution Volume : 5000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -8.981 | 628.857 | 15.357 | 2034.765 | 23333.154 | 65.073 | 9.801 | 5.313 |
| S.D. | 5.307 | 1.242 | 58.923 | 6.699 | 65.824 | 10.295 | 1.957 | 1.175 |
| % R.S.D. | 59.093 | 0.197 | 383.686 | 0.329 | 0.282 | 15.821 | 19.971 | 22.119 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 40.026 | 1213.233 | 13.222 | 2084.315 | 649.240 | 397.725 | 45.563 | 1080.614 |
| S.D. | 0.292 | 4.683 | 11.553 | 27.483 | 1.581 | 5.118 | 11.801 | 274.442 |
| % R.S.D. | 0.730 | 0.386 | 87.379 | 1.319 | 0.243 | 1.287 | 25.900 | 25.397 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 57.867 | -97.270 | 15.746 | 5592.212 | 29552.978 | 77.583 | 86.792 | 190569.522 |
| S.D. | 41.002 | 33.929 | 1.160 | 157.989 | 387.744 | 2.536 | 16.911 | 1685.350 |
| % R.S.D. | 70.856 | 34.882 | 7.368 | 2.825 | 1.312 | 3.269 | 19.485 | 0.884 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 29.108 | -106.439 | 9.588 | 278.502 | 2.507 | 12.356 | 45.047 | 1699.797 |
| S.D. | 3.406 | 16.503 | 3.560 | 22.873 | 1.044 | 3.864 | 1.949 | 20.883 |
| % R.S.D. | 11.702 | 15.505 | 37.130 | 8.213 | 41.640 | 31.271 | 4.327 | 1.229 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 14.309 | 333.750 | 11.816 | 0.140 | -64.865 |
| S.D. | 2.681 | 91.082 | 4.032 | 0.036 | 68.232 |
| % R.S.D. | 18.734 | 27.291 | 34.121 | 25.397 | 105.190 |

Identity 1: S95T002171 Identity 2: .8055gin100,1-9 ml 12:46 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8055 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 2.968 | 634.420 | 54.123 | 2014.145 | 23567.992 | 29.438 | 5.352 | 0.794 |
| S.D. | 1.313 | 1.541 | 5.251 | 5.478 | 49.489 | 2.046 | 0.526 | 0.477 |
| % R.S.D. | 44.257 | 0.243 | 9.701 | 0.272 | 0.210 | 6.950 | 9.820 | 59.998 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 26.434 | 1223.876 | 3.010 | 2082.574 | 450.544 | 403.017 | 14.365 | 1598.608 |
| S.D. | 1.223 | 3.998 | 2.280 | 13.307 | 1.198 | 0.944 | 6.074 | 58.173 |
| % R.S.D. | 4.628 | 0.327 | 75.753 | 0.639 | 0.266 | 0.234 | 42.285 | 3.639 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 14.652 | -43.205 | 15.326 | 5431.458 | 29173.399 | 65.911 | 9.633 | 186862.974 |
| S.D. | 17.416 | 11.988 | 0.251 | 156.375 | 416.000 | 0.308 | 5.302 | 501.820 |
| % R.S.D. | 118.867 | 27.748 | 1.638 | 2.879 | 1.426 | 0.467 | 55.044 | 0.269 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 7.274 | 23.058 | 2.807 | 191.820 | 4.803 | 2.030 | 40.481 | 1528.490 |
| S.D. | 0.550 | 14.497 | 1.084 | 21.824 | 0.741 | 1.453 | 1.235 | 33.593 |
| % R.S.D. | 7.557 | 62.871 | 38.628 | 11.377 | 15.426 | 71.567 | 3.051 | 2.198 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 15.106 | 42.834 | 1.499 | 0.286 | -18.863 |
| S.D. | 0.194 | 20.901 | 1.156 | 0.145 | 31.771 |
| % R.S.D. | 1.282 | 48.795 | 77.120 | 50.538 | 168.425 |

Identity 1: S95T002171_D Identity 2: .8127gin100,1-9 ml 12:50 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8127 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHO-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 2.164 | 610.951 | 40.786 | 1948.964 | 22581.841 | 31.533 | 5.355 | 0.944 |
| S.D. | 0.947 | 0.812 | 3.743 | 7.510 | 39.996 | 3.521 | 0.132 | 0.280 |
| % R.S.D. | 43.751 | 0.133 | 9.177 | 0.385 | 0.177 | 11.168 | 2.456 | 29.654 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 23.909 | 1169.813 | 3.945 | 1998.743 | 414.966 | 383.471 | 16.047 | 1543.331 |
| S.D. | 0.310 | 2.713 | 0.018 | 11.505 | 0.416 | 1.811 | 5.680 | 34.519 |
| % R.S.D. | 1.297 | 0.232 | 0.449 | 0.576 | 0.100 | 0.472 | 35.396 | 2.237 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 17.339 | -25.373 | 14.708 | 5144.500 | 27710.849 | 59.199 | 4.306 | 181781.440 |
| S.D. | 11.539 | 8.947 | 0.324 | 233.460 | 528.458 | 0.346 | 9.190 | 666.506 |
| % R.S.D. | 66.549 | 35.263 | 2.204 | 4.538 | 1.907 | 0.585 | 213.408 | 0.367 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 7.387 | 36.589 | 4.005 | 210.197 | 4.412 | 2.837 | 36.575 | 1388.492 |
| S.D. | 0.371 | 5.452 | 0.973 | 7.795 | 0.261 | 0.805 | 0.915 | 22.068 |
| % R.S.D. | 5.026 | 14.899 | 24.295 | 3.709 | 5.925 | 28.387 | 2.502 | 1.589 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 14.203 | 74.624 | 1.318 | 0.513 | -8.609 |
| S.D. | 0.598 | 32.163 | 0.647 | 0.140 | 14.065 |
| % R.S.D. | 4.209 | 43.100 | 49.138 | 27.325 | 163.370 |

Identity 1: S95T002171_S Identity 2: .8348gin100,1-9 ml 1:03 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8348 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 581.325 | 1281.664 | 629.280 | 3156.941 | 25514.807 | 611.677 | 551.982 | 563.246 |
| S.D. | 0.264 | 6.810 | 7.670 | 3.248 | 95.392 | 1.982 | 3.521 | 1.930 |
| % R.S.D. | 0.045 | 0.531 | 1.219 | 0.103 | 0.374 | 0.324 | 0.638 | 0.343 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 603.551 | 1915.388 | 598.498 | 2465.250 | 1110.234 | 994.620 | 627.221 | 2890.121 |
| S.D. | 0.840 | 9.962 | 2.216 | 16.139 | 6.177 | 1.995 | 9.699 | 55.625 |
| % R.S.D. | 0.139 | 0.520 | 0.370 | 0.655 | 0.556 | 0.201 | 1.546 | 1.925 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 619.906 | 576.389 | 593.708 | 3541.945 | 30610.047 | 621.986 | 591.132 | 197127.585 |
| S.D. | 14.187 | 8.630 | 3.427 | 70.794 | 87.006 | 0.896 | 5.296 | 544.600 |
| % R.S.D. | 2.289 | 1.497 | 0.577 | 1.999 | 0.284 | 0.144 | 0.896 | 0.276 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 577.371 | 622.346 | 119.378 | 789.527 | 566.484 | 581.153 | 656.897 | 2204.268 |
| S.D. | 2.695 | 26.157 | 1.185 | 10.205 | 1.828 | 1.688 | 3.210 | 10.662 |
| % R.S.D. | 0.467 | 4.203 | 0.993 | 1.293 | 0.323 | 0.290 | 0.489 | 0.484 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 602.306 | 631.954 | 571.296 | 596.843 | 609.503 |
| S.D. | 1.770 | 11.386 | 2.123 | 2.725 | 24.569 |
| % R.S.D. | 0.294 | 1.802 | 0.372 | 0.457 | 4.031 |

Identity 1: CCV  Identity 2: Quality Control  1:10 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.948 | 4.957 | 5.010 | 4.907 | 4.942 | 4.981 | 5.040 | 4.995 |
| S.D. | 0.015 | 0.023 | 0.044 | 0.011 | 0.012 | 0.010 | 0.029 | 0.030 |
| % R.S.D. | 0.308 | 0.462 | 0.884 | 0.234 | 0.237 | 0.199 | 0.583 | 0.595 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 5.070 | 5.011 | 5.051 | 5.131 | 5.013 | 5.038 | 5.333 | 9.563 |
| S.D. | 0.004 | 0.001 | 0.022 | 0.016 | 0.023 | 0.007 | 0.026 | 0.008 |
| % R.S.D. | 0.088 | 0.029 | 0.443 | 0.316 | 0.457 | 0.144 | 0.489 | 0.088 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 5.020 | 4.864 | 4.957 | 4.985 | 4.909 | 4.901 | 5.070 | 4.977 |
| S.D. | 0.011 | 0.020 | 0.028 | 0.037 | 0.029 | 0.002 | 0.014 | 0.022 |
| % R.S.D. | 0.220 | 0.409 | 0.557 | 0.737 | 0.593 | 0.044 | 0.274 | 0.435 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.973 | 5.170 | 5.011 | 5.078 | 4.794 | 5.051 | 5.093 | 5.143 |
| S.D. | 0.005 | 0.041 | 0.004 | 0.019 | 0.013 | 0.011 | 0.023 | 0.016 |
| % R.S.D. | 0.110 | 0.784 | 0.073 | 0.366 | 0.280 | 0.223 | 0.459 | 0.310 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 5.037 | 4.772 | 4.968 | 5.176 | 4.879 |
| S.D. | 0.010 | 0.032 | 0.008 | 0.013 | 0.003 |
| % R.S.D. | 0.193 | 0.660 | 0.165 | 0.248 | 0.071 |

Identity 1: CCB  Identity 2: Quality Control  1:16 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.002 | 0.000 | -0.008 | -0.002 | -0.022 | 0.000 | 0.000 | 0.001 |
| S.D. | 0.001 | 0.000 | 0.006 | 0.003 | 0.006 | 0.000 | 0.000 | 0.000 |
| % R.S.D. | 55.996 | 43.301 | 69.638 | 122.536 | 28.781 | 38.839 | 136.641 | 26.017 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.000 | -0.002 | 0.002 | 0.002 | 0.000 | -0.001 | 0.016 | -0.072 |
| S.D. | 0.001 | 0.001 | 0.001 | 0.001 | 0.000 | 0.001 | 0.004 | 0.028 |
| % R.S.D. | 204.049 | 37.336 | 34.600 | 52.112 | 36.398 | 100.198 | 26.975 | 38.891 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.006 | -0.030 | 0.000 | 0.014 | 0.006 | -0.000 | 0.014 | 0.008 |
| S.D. | 0.005 | 0.003 | 0.000 | 0.011 | 0.004 | 0.000 | 0.003 | 0.005 |
| % R.S.D. | 71.710 | 9.719 | 78.062 | 76.756 | 72.140 | 150.000 | 23.352 | 57.728 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.000 | 0.008 | 0.001 | 0.010 | -0.001 | -0.000 | 0.000 | -0.071 |
| S.D. | 0.001 | 0.007 | 0.001 | 0.012 | 0.001 | 0.001 | 0.001 | 0.007 |
| % R.S.D. | 281.506 | 82.603 | 82.621 | 120.068 | 58.546 | 205.806 | 514.051 | 9.449 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.000 | -0.006 | -0.002 | -0.000 | -0.017 |
| S.D. | 0.000 | 0.008 | 0.000 | 0.000 | 0.011 |
| % R.S.D. | 81.639 | 121.724 | 17.076 | 33.493 | 63.084 |

Identity 1: S95T002172_L Identity 2: .1948gin100,4-4-2-8 1:19 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.1948 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -28.613 | 26381.175 | 629.373 | 3369.098 | 24694.945 | 52.072 | 29.314 | 7.408 |
| S.D. | 3.422 | 60.513 | 4.301 | 9.408 | 35.606 | 16.964 | 0.975 | 1.598 |
| % R.S.D. | 11.961 | 0.229 | 0.683 | 0.279 | 0.144 | 32.579 | 3.325 | 21.574 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 252.713 | 12239.801 | 17.174 | 17898.540 | 5755.306 | 2079.719 | 125.075 | 14525.332 |
| S.D. | 2.315 | 34.516 | 3.555 | 61.730 | 10.562 | 7.460 | 38.539 | 158.615 |
| % R.S.D. | 0.916 | 0.282 | 20.700 | 0.345 | 0.184 | 0.359 | 30.812 | 1.092 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 599.362 | -249.044 | 410.577 | 13620.607 | 5042.026 | 1064.469 | 69.057 | 135680.212 |
| S.D. | 32.452 | 20.692 | 0.791 | 187.747 | 43.756 | 0.964 | 21.479 | 1332.420 |
| % R.S.D. | 5.414 | 8.309 | 0.193 | 1.378 | 0.868 | 0.091 | 31.103 | 0.982 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 14.220 | -122.293 | 16.099 | 1384.740 | 27.860 | 19.209 | 164.017 | 1290.451 |
| S.D. | 7.176 | 28.961 | 2.931 | 43.177 | 1.871 | 3.654 | 5.743 | 39.158 |
| % R.S.D. | 50.461 | 23.682 | 18.205 | 3.118 | 6.716 | 19.023 | 3.501 | 3.034 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 281.280 | 635.695 | 8.992 | 4.170 | 31.110 |
| S.D. | 1.420 | 101.343 | 2.632 | 1.135 | 84.393 |
| % R.S.D. | 0.505 | 15.942 | 29.267 | 27.226 | 271.270 |

Identity 1: S951002172 Identity 2: .1948gin100,4-4 ml 1:23 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.1948 Solution Volume : 200.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -3.935 | 25634.759 | 765.646 | 3457.130 | 24860.405 | 27.441 | 21.569 | 2.548 |
| S.D. | 0.395 | 18.635 | 6.204 | 5.514 | 17.141 | 0.001 | 0.149 | 0.099 |
| % R.S.D. | 10.031 | 0.073 | 0.810 | 0.160 | 0.069 | 0.003 | 0.692 | 3.885 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 250.820 | 12211.644 | 27.470 | 17777.147 | 5738.743 | 2080.871 | 62.105 | 15427.623 |
| S.D. | 1.051 | 35.343 | 1.422 | 49.357 | 8.505 | 6.328 | 7.711 | 6.676 |
| % R.S.D. | 0.419 | 0.289 | 5.177 | 0.278 | 0.148 | 0.304 | 12.416 | 0.043 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 445.461 | -20.608 | 406.190 | 14153.774 | 5169.808 | 1073.862 | 19.977 | 131703.189 |
| S.D. | 3.726 | 4.721 | 0.338 | 643.707 | 106.984 | 1.850 | 4.804 | 379.745 |
| % R.S.D. | 0.836 | 22.906 | 0.083 | 4.548 | 2.069 | 0.172 | 24.047 | 0.288 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 6.829 | 63.461 | 3.434 | 1314.036 | 35.363 | 8.846 | 163.250 | 1551.949 |
| S.D. | 0.172 | 14.529 | 0.654 | 21.152 | 0.374 | 1.152 | 0.908 | 12.451 |
| % R.S.D. | 2.519 | 22.895 | 19.051 | 1.610 | 1.057 | 13.025 | 0.556 | 0.802 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 281.573 | 88.099 | 1.660 | 1.342 | 11.105 |
| S.D. | 1.092 | 15.198 | 0.671 | 0.226 | 2.594 |
| % R.S.D. | 0.388 | 17.251 | 40.425 | 16.829 | 23.360 |

Identity 1: S95T002172_D Identity 2: .2076gin100,4-4 ml 1:26 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.2076 Solution Volume : 200.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -3.661 | 25519.295 | 764.737 | 3341.431 | 24610.196 | 16.429 | 22.927 | 2.916 |
| S.D. | 0.462 | 20.209 | 13.702 | 9.999 | 19.570 | 1.592 | 0.223 | 0.061 |
| % R.S.D. | 12.608 | 0.079 | 1.792 | 0.299 | 0.080 | 9.693 | 0.972 | 2.084 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 247.235 | 12087.526 | 33.677 | 17669.017 | 5805.454 | 2058.009 | 53.241 | 15413.588 |
| S.D. | 0.160 | 8.764 | 0.010 | 20.972 | 6.114 | 1.841 | 4.142 | 16.282 |
| % R.S.D. | 0.065 | 0.073 | 0.030 | 0.119 | 0.105 | 0.089 | 7.780 | 0.106 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 446.290 | -11.680 | 404.864 | 13738.109 | 5062.022 | 1007.387 | 18.167 | 130021.442 |
| S.D. | 4.038 | 0.957 | 0.301 | 251.802 | 69.080 | 2.615 | 3.789 | 207.556 |
| % R.S.D. | 0.905 | 8.191 | 0.074 | 1.833 | 1.365 | 0.260 | 20.855 | 0.160 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 6.738 | 79.371 | 4.098 | 1323.081 | 32.945 | 7.785 | 163.426 | 1464.838 |
| S.D. | 1.085 | 9.545 | 0.577 | 6.535 | 0.201 | 0.479 | 1.342 | 8.832 |
| % R.S.D. | 16.097 | 12.026 | 14.071 | 0.494 | 0.610 | 6.149 | 0.821 | 0.603 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 280.501 | 210.716 | -1.016 | 0.767 | 12.828 |
| S.D. | 1.266 | 36.099 | 0.266 | 0.105 | 10.732 |
| % R.S.D. | 0.451 | 17.132 | 26.123 | 13.707 | 83.657 |

Identity 1: ICSA  Identity 2: Quality Control  1:31 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.005 | 0.002 | -0.050 | 0.029 | 200.266 | 0.003 | 0.004 | 0.000 |
| S.D. | 0.000 | 0.000 | 0.002 | 0.005 | 0.071 | 0.002 | 0.000 | 0.000 |
| % R.S.D. | 5.462 | 19.868 | 5.034 | 16.839 | 0.036 | 57.570 | 6.021 | 52.872 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | -0.005 | 0.008 | 0.003 | 97.630 | 99.724 | -0.002 | 0.004 | -0.087 |
| S.D. | 0.001 | 0.002 | 0.002 | 0.206 | 0.021 | 0.000 | 0.008 | 0.010 |
| % R.S.D. | 12.931 | 19.212 | 64.533 | 0.211 | 0.021 | 22.307 | 190.728 | 11.908 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.010 | -0.000 | 0.004 | 0.048 | 0.014 | 102.255 | 0.016 | 185.886 |
| S.D. | 0.003 | 0.003 | 0.000 | 0.008 | 0.022 | 0.100 | 0.005 | 0.901 |
| % R.S.D. | 31.576 | 1562.133 | 0.969 | 16.865 | 162.620 | 0.098 | 32.890 | 0.485 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.002 | 0.008 | 0.002 | 0.007 | -0.000 | 0.004 | 0.011 | -0.038 |
| S.D. | 0.000 | 0.020 | 0.000 | 0.006 | 0.000 | 0.001 | 0.001 | 0.009 |
| % R.S.D. | 19.500 | 263.956 | 13.754 | 89.913 | 92.737 | 14.241 | 5.764 | 24.019 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.008 | 0.313 | 0.001 | 0.002 | -0.015 |
| S.D. | 0.000 | 0.035 | 0.000 | 0.000 | 0.012 |
| % R.S.D. | 5.292 | 11.070 | 56.666 | 5.082 | 78.848 |

Identity 1: ICSAB  Identity 2: Quality Control  1:36 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00
On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.004 | 0.002 | -0.036 | 0.036 | 197.580 | 0.488 | 0.492 | 0.907 |
| S.D. | 0.001 | 0.000 | 0.004 | 0.001 | 0.311 | 0.003 | 0.001 | 0.002 |
| % R.S.D. | 26.774 | 4.075 | 11.229 | 2.932 | 0.157 | 0.588 | 0.189 | 0.193 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.988 | 0.966 | 0.006 | 97.204 | 99.541 | 0.485 | 0.001 | -0.017 |
| S.D. | 0.004 | 0.003 | 0.002 | 0.207 | 0.226 | 0.002 | 0.003 | 0.017 |
| % R.S.D. | 0.401 | 0.333 | 28.543 | 0.213 | 0.227 | 0.479 | 362.026 | 101.114 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.012 | 0.016 | 0.491 | 0.056 | 0.027 | 103.556 | 0.025 | 184.798 |
| S.D. | 0.006 | 0.005 | 0.002 | 0.012 | 0.015 | 0.152 | 0.007 | 0.271 |
| % R.S.D. | 49.147 | 28.844 | 0.328 | 21.185 | 55.465 | 0.147 | 29.785 | 0.147 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.000 | 0.001 | 1.012 | 0.982 | -0.000 | 0.984 | 0.017 | 0.054 |
| S.D. | 0.001 | 0.005 | 0.003 | 0.020 | 0.000 | 0.005 | 0.000 | 0.010 |
| % R.S.D. | 1993.576 | 473.333 | 0.291 | 2.024 | 102.243 | 0.553 | 2.802 | 18.383 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.502 | 0.309 | 0.482 | 0.490 | 0.030 |
| S.D. | 0.002 | 0.017 | 0.001 | 0.001 | 0.019 |
| % R.S.D. | 0.377 | 5.548 | 0.171 | 0.294 | 65.173 |

Identity 1: CCV  Identity 2: Quality Control  1:41 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000  Solution Volume : 1.00

On-Peak Integrations : 3  Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.938 | 4.953 | 4.979 | 4.871 | 4.923 | 4.939 | 5.042 | 4.961 |
| S.D. | 0.009 | 0.003 | 0.016 | 0.012 | 0.005 | 0.015 | 0.004 | 0.034 |
| % R.S.D. | 0.184 | 0.069 | 0.329 | 0.250 | 0.110 | 0.298 | 0.085 | 0.677 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.998 | 4.994 | 5.051 | 5.123 | 5.012 | 4.989 | 5.404 | 9.607 |
| S.D. | 0.011 | 0.016 | 0.005 | 0.007 | 0.003 | 0.012 | 0.025 | 0.032 |
| % R.S.D. | 0.229 | 0.323 | 0.108 | 0.144 | 0.060 | 0.250 | 0.470 | 0.329 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.987 | 4.880 | 4.960 | 4.862 | 4.821 | 4.852 | 5.031 | 4.943 |
| S.D. | 0.014 | 0.006 | 0.001 | 0.099 | 0.035 | 0.015 | 0.010 | 0.037 |
| % R.S.D. | 0.279 | 0.129 | 0.028 | 2.034 | 0.720 | 0.316 | 0.191 | 0.751 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 4.918 | 5.129 | 4.942 | 5.057 | 4.771 | 5.033 | 5.078 | 5.095 |
| S.D. | 0.017 | 0.027 | 0.015 | 0.012 | 0.009 | 0.015 | 0.007 | 0.026 |
| % R.S.D. | 0.336 | 0.525 | 0.313 | 0.230 | 0.181 | 0.308 | 0.145 | 0.505 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 5.013 | 4.790 | 4.947 | 5.167 | 4.808 |
| S.D. | 0.012 | 0.038 | 0.015 | 0.006 | 0.022 |
| % R.S.D. | 0.240 | 0.786 | 0.302 | 0.120 | 0.455 |

Identity 1: CCB  Identity 2: Quality Control  2:08 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000  Solution Volume : 1.00  WHO-SD-WM-DP-145, REV. 1
On-Peak Integrations : 3  Off-Peak Integrations : 1

| | Zr (ppm) | Sr (ppm) | Bi (ppm) | Si (ppm) | Al (ppm) | Co (ppm) | Cu (ppm) | Li (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.000 | 0.000 | -0.014 | 0.004 | -0.006 | -0.001 | 0.001 | 0.001 |
| S.D. | 0.001 | 0.000 | 0.009 | 0.002 | 0.006 | 0.002 | 0.000 | 0.000 |
| % R.S.D. | 787.376 | 25.000 | 59.622 | 45.031 | 102.870 | 173.318 | 22.245 | 26.064 |

| | Zn (ppm) | Ni (ppm) | La (ppm) | Fe (ppm) | Ca (ppm) | Cr (ppm) | Nd (ppm) | U (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.000 | -0.001 | 0.002 | -0.001 | 0.001 | -0.004 | 0.010 | 0.019 |
| S.D. | 0.000 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 | 0.006 | 0.055 |
| % R.S.D. | 250.501 | 16.588 | 41.600 | 135.653 | 9.915 | 9.396 | 63.804 | 282.650 |

| | Ce (ppm) | Sm (ppm) | Ba (ppm) | P (ppm) | S (ppm) | Mg (ppm) | As (ppm) | Na (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.021 | -0.024 | 0.000 | 0.000 | 0.005 | -0.000 | 0.018 | 0.011 |
| S.D. | 0.006 | 0.008 | 0.000 | 0.008 | 0.004 | 0.000 | 0.003 | 0.004 |
| % R.S.D. | 29.083 | 35.045 | 37.084 | 2354.247 | 67.907 | 34922225.317 | 16.551 | 36.731 |

| | Mo (ppm) | Se (ppm) | Ag (ppm) | Pb (ppm) | Ti (ppm) | Cd (ppm) | B (ppm) | K (ppm) |
|---|---|---|---|---|---|---|---|---|
| Mean | 0.002 | 0.004 | 0.002 | 0.008 | 0.000 | 0.001 | 0.000 | -0.028 |
| S.D. | 0.001 | 0.009 | 0.001 | 0.016 | 0.000 | 0.001 | 0.000 | 0.005 |
| % R.S.D. | 39.034 | 256.848 | 34.105 | 202.694 | 214.210 | 74.039 | 171.517 | 16.433 |

| | Mn (ppm) | Sb (ppm) | V (ppm) | Be (ppm) | Tl (ppm) |
|---|---|---|---|---|---|
| Mean | 0.000 | 0.094 | 0.000 | -0.000 | -0.015 |
| S.D. | 0.000 | 0.074 | 0.000 | 0.000 | 0.024 |
| % R.S.D. | 90.739 | 79.053 | 227.346 | 89.444 | 159.789 |

JK Jd
10-25-95

| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2880 | 1 | | | ICV | AG | | | | 4.9889 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 2 | 2880 | 1 | | | ICV | AL | | | | 4.9880 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.06 | @ICP-QC |
| 3 | 2880 | 1 | | | ICV | AS | | | | 5.0805 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.06 | @ICP-QC |
| 4 | 2880 | 1 | | | ICV | B | | | | 5.0829 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.06 | @ICP-QC |
| 5 | 2880 | 1 | | | ICV | BA | | | | 4.8573 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.06 | @ICP-QC |
| 6 | 2880 | 1 | | | ICV | BE | | | | 5.1815 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.005 | @ICP-QC |
| 7 | 2880 | 1 | | | ICV | BI | | | | 5.0177 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 8 | 2880 | 1 | | | ICV | CA | | | | 5.0220 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 9 | 2880 | 1 | | | ICV | CD | | | | 5.0744 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 10 | 2880 | 1 | | | ICV | CE | | | | 5.0862 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 11 | 2880 | 1 | | | ICV | CO | | | | 5.0422 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.02 | @ICP-QC |
| 12 | 2880 | 1 | | | ICV | CR | | | | 5.0703 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 13 | 2880 | 1 | | | ICV | CU | | | | 5.0460 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 14 | 2880 | 1 | | | ICV | FE | | | | 5.1461 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.05 | @ICP-QC |
| 15 | 2880 | 1 | | | ICV | K | | | | 5.1094 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.3 | @ICP-QC |
| 16 | 2880 | 1 | | | ICV | LA | | | | 5.0349 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.05 | @ICP-QC |
| 17 | 2880 | 1 | | | ICV | LI | | | | 5.0134 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 18 | 2880 | 1 | | | ICV | MG | | | | 4.9230 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 19 | 2880 | 1 | | | ICV | MN | | | | 5.0541 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 20 | 2880 | 1 | | | ICV | MO | | | | 5.0042 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.05 | @ICP-QC |
| 21 | 2880 | 1 | | | ICV | NA | | | | 4.9801 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 22 | 2880 | 1 | | | ICV | ND | | | | 5.2839 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 23 | 2880 | 1 | | | ICV | NI | | | | 5.0362 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.02 | @ICP-QC |
| 24 | 2880 | 1 | | | ICV | P | | | | 5.0508 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.2 | @ICP-QC |
| 25 | 2880 | 1 | | | ICV | PB | | | | 5.0999 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 26 | 2880 | 1 | | | ICV | S | | | | 4.9751 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.05 | @ICP-QC |
| 27 | 2880 | 1 | | | ICV | SB | | | | 4.7392 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.2 | @ICP-QC |
| 28 | 2880 | 1 | | | ICV | SE | | | | 5.2084 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 29 | 2880 | 1 | | | ICV | SI | | | | 4.8223 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.05 | @ICP-QC |
| 30 | 2880 | 1 | | | ICV | SM | | | | 4.8576 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.1 | @ICP-QC |
| 31 | 2880 | 1 | | | ICV | SR | | | | 4.9671 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 32 | 2880 | 1 | | | ICV | TI | | | | 4.8210 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 33 | 2880 | 1 | | | ICV | TL | | | | 4.9125 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.2 | @ICP-QC |
| 34 | 2880 | 1 | | | ICV | U | | | | 9.5256 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.4 | @ICP-QC |
| 35 | 2880 | 1 | | | ICV | V | | | | 4.9809 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.06 | @ICP-QC |
| 36 | 2880 | 1 | | | ICV | ZN | | | | 5.0768 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 37 | 2880 | 1 | | | ICV | ZR | | | | 4.9514 | | 1.0000 | 10/25/95 | 12:16 | dks | 0.01 | @ICP-QC |
| 38 | 2880 | 2 | | | ICB | AG | | | | -0.0003 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 39 | 2880 | 2 | | | ICB | AL | | | | -0.0088 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 40 | 2880 | 2 | | | ICB | AS | | | | -0.0016 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 41 | 2880 | 2 | | | ICB | B | | | | 0.0026 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 42 | 2880 | 2 | | | ICB | BA | | | | -0.0001 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 43 | 2880 | 2 | | | ICB | BE | | | | 0.0004 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.005 | @ICP-QC |
| 44 | 2880 | 2 | | | ICB | BI | | | | -0.0284 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 45 | 2880 | 2 | | | ICB | CA | | | | 0.0006 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 46 | 2880 | 2 | | | ICB | CD | | | | 0.0004 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 47 | 2880 | 2 | | | ICB | CE | | | | -0.0144 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 48 | 2880 | 2 | | | ICB | CO | | | | -0.0010 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.02 | @ICP-QC |
| 49 | 2880 | 2 | | | ICB | CR | | | | -0.0008 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 50 | 2880 | 2 | | | ICB | CU | | | | -0.0001 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 51 | 2880 | 2 | | | ICB | FE | | | | -0.0028 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 52 | 2880 | 2 | | | ICB | K | | | | -0.0447 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.3 | @ICP-QC |
| 53 | 2880 | 2 | | | ICB | LA | | | | 0.0024 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 54 | 2880 | 2 | | | ICB | LI | | | | 0.0003 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 55 | 2880 | 2 | | | ICB | MG | | | | 0.0003 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 56 | 2880 | 2 | | | ICB | MN | | | | 0.0003 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 57 | 2880 | 2 | | | ICB | MO | | | | 0.0007 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 58 | 2880 | 2 | | | ICB | NA | | | | 0.0020 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 59 | 2880 | 2 | | | ICB | ND | | | | 0.0082 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 60 | 2880 | 2 | | | ICB | NI | | | | 0.0010 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.02 | @ICP-QC |
| 61 | 2880 | 2 | | | ICB | P | | | | -0.0014 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.2 | @ICP-QC |
| 62 | 2880 | 2 | | | ICB | PB | | | | -0.0027 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 63 | 2880 | 2 | | | ICB | S | | | | 0.0013 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 64 | 2880 | 2 | | | ICB | SB | | | | 0.0108 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.2 | @ICP-QC |
| 65 | 2880 | 2 | | | ICB | SE | | | | -0.0030 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 66 | 2880 | 2 | | | ICB | SI | | | | 0.0050 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 67 | 2880 | 2 | | | ICB | SM | | | | -0.0121 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.1 | @ICP-QC |
| 68 | 2880 | 2 | | | ICB | SR | | | | 0.0001 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 69 | 2880 | 2 | | | ICB | TI | | | | -0.0001 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 70 | 2880 | 2 | | | ICB | TL | | | | -0.0273 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.2 | @ICP-QC |
| 71 | 2880 | 2 | | | ICB | U | | | | -0.0346 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.4 | @ICP-QC |
| 72 | 2880 | 2 | | | ICB | V | | | | -0.0031 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.05 | @ICP-QC |
| 73 | 2880 | 2 | | | ICB | ZN | | | | 0.0007 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 74 | 2880 | 2 | | | ICB | ZR | | | | -0.0010 | | 1.0000 | 10/25/95 | 12:19 | dks | 0.01 | @ICP-QC |
| 75 | 2880 | 3 | | | ICSA | AG | | | | 0.0018 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 76 | 2880 | 3 | | | ICSA | AL | | | | 198.1598 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 77 | 2880 | 3 | | | ICSA | AS | | | | 0.0284 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 78 | 2880 | 3 | | | ICSA | B | | | | 0.0147 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 79 | 2880 | 3 | | | ICSA | BA | | | | 0.0041 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 80 | 2880 | 3 | | | ICSA | BE | | | | 0.0026 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.005 | @ICP-QC |
| 81 | 2880 | 3 | | | ICSA | BI | | | | -0.0375 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 82 | 2880 | 3 | | | ICSA | CA | | | | 99.2753 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 83 | 2880 | 3 | | | ICSA | CD | | | | 0.0014 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 84 | 2880 | 3 | | | ICSA | CE | | | | 0.0083 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 85 | 2880 | 3 | | | ICSA | CO | | | | 0.0000 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.02 | @ICP-QC |
| 86 | 2880 | 3 | | | ICSA | CR | | | | 0.0002 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 87 | 2880 | 3 | | | ICSA | CU | | | | 0.0034 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 88 | 2880 | 3 | | | ICSA | FE | | | | 97.1574 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 89 | 2880 | 3 | | | ICSA | K | | | | -0.0425 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.3 | @ICP-QC |
| 90 | 2880 | 3 | | | ICSA | LA | | | | 0.0085 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 91 | 2880 | 3 | | | ICSA | LI | | | | 0.0003 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 92 | 2880 | 3 | | | ICSA | MG | | | | 101.5536 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 93 | 2880 | 3 | | | ICSA | MN | | | | 0.0085 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 94 | 2880 | 3 | | | ICSA | MO | | | | 0.0010 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 95 | 2880 | 3 | | | ICSA | NA | | | | 182.8238 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 96 | 2880 | 3 | | | ICSA | ND | | | | 0.0008 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 97 | 2880 | 3 | | | ICSA | NI | | | | 0.0086 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.02 | @ICP-QC |
| 98 | 2880 | 3 | | | ICSA | P | | | | 0.0381 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.2 | @ICP-QC |
| 99 | 2880 | 3 | | | ICSA | PB | | | | -0.0084 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 100 | 2880 | 3 | | | ICSA | S | | | | 0.0088 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 101 | 2880 | 3 | | | ICSA | SB | | | | 0.2847 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.2 | @ICP-QC |
| 102 | 2880 | 3 | | | ICSA | SE | | | | 0.0101 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 103 | 2880 | 3 | | | ICSA | SI | | | | 0.0306 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.05 | @ICP-QC |
| 104 | 2880 | 3 | | | ICSA | SM | | | | 0.0220 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.1 | @ICP-QC |
| 105 | 2880 | 3 | | | ICSA | SR | | | | 0.0016 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 106 | 2880 | 3 | | | ICSA | TI | | | | 0.0005 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 107 | 2880 | 3 | | | ICSA | TL | | | | -0.0123 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.2 | @ICP-QC |
| 108 | 2880 | 3 | | | ICSA | U | | | | -0.0189 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.4 | @ICP-QC |
| 109 | 2880 | 3 | | | ICSA | V | | | | -0.0003 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.06 | @ICP-QC |
| 110 | 2880 | 3 | | | ICSA | ZN | | | | -0.0052 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 111 | 2880 | 3 | | | ICSA | ZR | | | | 0.0075 | | 1.0000 | 10/25/95 | 12:22 | dks | 0.01 | @ICP-QC |
| 112 | 2880 | 4 | | | ICSAB | AG | | | | 1.0035 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 113 | 2880 | 4 | | | ICSAB | AL | | | | 198.5931 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 114 | 2880 | 4 | | | ICSAB | AS | | | | 0.0223 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 115 | 2880 | 4 | | | ICSAB | B | | | | 0.0138 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 116 | 2880 | 4 | | | ICSAB | BA | | | | 0.4868 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 117 | 2880 | 4 | | | ICSAB | BE | | | | 0.4825 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.005 | @ICP-QC |
| 118 | 2880 | 4 | | | ICSAB | BI | | | | -0.0479 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 119 | 2880 | 4 | | | ICSAB | CA | | | | 100.2827 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 120 | 2880 | 4 | | | ICSAB | CD | | | | 0.9828 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 121 | 2880 | 4 | | | ICSAB | CE | | | | 0.0126 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 122 | 2880 | 4 | | | ICSAB | CO | | | | 0.4786 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.02 | @ICP-QC |
| 123 | 2880 | 4 | | | ICSAB | CR | | | | 0.4881 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 124 | 2880 | 4 | | | ICSAB | CU | | | | 0.5005 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 125 | 2880 | 4 | | | ICSAB | FE | | | | 97.1024 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 126 | 2880 | 4 | | | ICSAB | K | | | | -0.0786 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.3 | @ICP-QC |
| 127 | 2880 | 4 | | | ICSAB | LA | | | | 0.0072 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 128 | 2880 | 4 | | | ICSAB | LI | | | | 0.8191 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 129 | 2880 | 4 | | | ICSAB | MG | | | | 101.7081 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 130 | 2880 | 4 | | | ICSAB | MN | | | | 0.6010 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 131 | 2880 | 4 | | | ICSAB | MO | | | | 0.0015 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 132 | 2880 | 4 | | | ICSAB | NA | | | | 185.6030 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 133 | 2880 | 4 | | | ICSAB | ND | | | | -0.0015 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 134 | 2880 | 4 | | | ICSAB | NI | | | | 0.9833 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.02 | @ICP-QC |
| 135 | 2880 | 4 | | | ICSAB | P | | | | 0.0832 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.2 | @ICP-QC |
| 136 | 2880 | 4 | | | ICSAB | PB | | | | 0.9840 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |

WMC-CD-WM-DP-145, REV. 1

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 137 | 2880 | 4 | | | ICSAB | S | | | | 0.0043 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 138 | 2880 | 4 | | | ICSAB | SB | | | | 0.2846 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.2 | @ICP-QC |
| 139 | 2880 | 4 | | | ICSAB | SE | | | | 0.0483 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 140 | 2880 | 4 | | | ICSAB | SI | | | | 0.0295 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 141 | 2880 | 4 | | | ICSAB | SM | | | | 0.0139 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.1 | @ICP-QC |
| 142 | 2880 | 4 | | | ICSAB | SR | | | | 0.0017 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 143 | 2880 | 4 | | | ICSAB | TI | | | | -0.0003 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 144 | 2880 | 4 | | | ICSAB | TL | | | | 0.0284 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.2 | @ICP-QC |
| 145 | 2880 | 4 | | | ICSAB | U | | | | -0.0819 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.4 | @ICP-QC |
| 146 | 2880 | 4 | | | ICSAB | V | | | | 0.4806 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.05 | @ICP-QC |
| 147 | 2880 | 4 | | | ICSAB | ZN | | | | 0.0722 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 148 | 2880 | 4 | | | ICSAB | ZR | | | | 0.0028 | | 1.0000 | 10/25/95 | 12:25 | dks | 0.01 | @ICP-QC |
| 149 | 2880 | 5 | | | PREP6TDARL | AG-A-01 | | | | 0.6336 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 150 | 2880 | 5 | | | PREP6TDARL | AL-A-01 | | | | 5.2355 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 151 | 2880 | 5 | | | PREP6TDARL | AS-A-01 | | | | 4.6520 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 152 | 2880 | 5 | | | PREP6TDARL | B-A-01 | | | | 8.2190 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 153 | 2880 | 5 | | | PREP6TDARL | BA-A-01 | | | | 4.7846 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 154 | 2880 | 5 | | | PREP6TDARL | BE-A-01 | | | | 5.2246 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.005 | @ICP-A01 |
| 155 | 2880 | 5 | | | PREP6TDARL | BI-A-01 | | | | 4.6588 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 156 | 2880 | 5 | | | PREP6TDARL | CA-A-01 | | | | 5.0865 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 157 | 2880 | 5 | | | PREP6TDARL | CD-A-01 | | | | 4.6069 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 158 | 2880 | 5 | | | PREP6TDARL | CE-A-01 | | | | 4.9001 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 159 | 2880 | 5 | | | PREP6TDARL | CO-A-01 | | | | 4.8827 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.02 | @ICP-A01 |
| 160 | 2880 | 5 | | | PREP6TDARL | CR-A-01 | | | | 4.9150 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 161 | 2880 | 5 | | | PREP6TDARL | CU-A-01 | | | | 4.7418 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 162 | 2880 | 5 | | | PREP6TDARL | FE-A-01 | | | | 4.8980 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 163 | 2880 | 5 | | | PREP6TDARL | K-A-01 | | | | 4.8068 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.3 | @ICP-A01 |
| 164 | 2880 | 5 | | | PREP6TDARL | LA-A-01 | | | | 4.9244 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 165 | 2880 | 5 | | | PREP6TDARL | LI-A-01 | | | | 4.7221 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 166 | 2880 | 5 | | | PREP6TDARL | MG-A-01 | | | | 4.8270 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 167 | 2880 | 5 | | | PREP6TDARL | MN-A-01 | | | | 4.8047 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 168 | 2880 | 5 | | | PREP6TDARL | MO-A-01 | | | | 4.4287 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 169 | 2880 | 5 | | | PREP6TDARL | NA-A-01 | | | | 5.7130 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 170 | 2880 | 5 | | | PREP6TDARL | ND-A-01 | | | | 5.0747 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 171 | 2880 | 5 | | | PREP6TDARL | NI-A-01 | | | | 4.9062 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.02 | @ICP-A01 |
| 172 | 2880 | 5 | | | PREP6TDARL | P-A-01 | | | | 4.8014 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.2 | @ICP-A01 |
| 173 | 2880 | 5 | | | PREP6TDARL | PB-A-01 | | | | 4.7968 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 174 | 2880 | 5 | | | PREP6TDARL | S-A-01 | | | | 4.5247 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 175 | 2880 | 5 | | | PREP6TDARL | SB-A-01 | | | | 4.5230 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.2 | @ICP-A01 |
| 176 | 2880 | 5 | | | PREP6TDARL | SE-A-01 | | | | 4.9820 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 177 | 2880 | 5 | | | PREP6TDARL | SI-A-01 | | | | 17.5636 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 178 | 2880 | 5 | | | PREP6TDARL | SM-A-01 | | | | 4.7444 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.1 | @ICP-A01 |
| 179 | 2880 | 5 | | | PREP6TDARL | SR-A-01 | | | | 4.8275 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 180 | 2880 | 5 | | | PREP6TDARL | TI-A-01 | | | | 4.8437 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 181 | 2880 | 5 | | | PREP6TDARL | TL-A-01 | | | | 4.5717 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.2 | @ICP-A01 |
| 182 | 2880 | 5 | | | PREP6TDARL | U-A-01 | | | | 9.4661 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.4 | @ICP-A01 |
| 183 | 2880 | 5 | | | PREP6TDARL | V-A-01 | | | | 4.8095 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.05 | @ICP-A01 |
| 184 | 2880 | 5 | | | PREP6TDARL | ZN-A-01 | | | | 4.7667 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 185 | 2880 | 5 | | | PREP6TDARL | ZR-A-01 | | | | 4.7808 | | 1.0000 | 10/25/95 | 12:33 | dks | 0.01 | @ICP-A01 |
| 186 | 2880 | 6 | | | PREP8LKARL | AG-A-01 | | | | 0.0040 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 187 | 2880 | 6 | | | PREP8LKARL | AL-A-01 | | | | 0.0149 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 188 | 2880 | 6 | | | PREP8LKARL | AS-A-01 | | | | 0.0049 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 189 | 2880 | 6 | | | PREP8LKARL | B-A-01 | | | | 0.1013 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 190 | 2880 | 6 | | | PREP8LKARL | BA-A-01 | | | | 0.0016 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 191 | 2880 | 6 | | | PREP8LKARL | BE-A-01 | | | | 0.0000 | | 1.0000 | 10/25/95 | 12:36 | dks | -0.005 | @ICP-A01 |
| 192 | 2880 | 6 | | | PREP8LKARL | BI-A-01 | | | | 0.0009 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 193 | 2880 | 6 | | | PREP8LKARL | CA-A-01 | | | | 0.0833 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 194 | 2880 | 6 | | | PREP8LKARL | CD-A-01 | | | | 0.0038 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 195 | 2880 | 6 | | | PREP8LKARL | CE-A-01 | | | | 0.0624 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 196 | 2880 | 6 | | | PREP8LKARL | CO-A-01 | | | | 0.0067 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.02 | @ICP-A01 |
| 197 | 2880 | 6 | | | PREP8LKARL | CR-A-01 | | | | 0.0061 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 198 | 2880 | 6 | | | PREP8LKARL | CU-A-01 | | | | 0.0056 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 199 | 2880 | 6 | | | PREP8LKARL | FE-A-01 | | | | 0.0236 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 200 | 2880 | 6 | | | PREP8LKARL | K-A-01 | | | | -0.0337 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.3 | @ICP-A01 |
| 201 | 2880 | 6 | | | PREP8LKARL | LA-A-01 | | | | 0.0004 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 202 | 2880 | 6 | | | PREP8LKARL | LI-A-01 | | | | 0.0018 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 203 | 2880 | 6 | | | PREP8LKARL | MG-A-01 | | | | 0.0144 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 204 | 2880 | 6 | | | PREP8LKARL | MN-A-01 | | | | 0.0010 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 205 | 2880 | 6 | | | PREP8LKARL | MO-A-01 | | | | 0.0023 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 206 | 2880 | 6 | | | PREP8LKARL | NA-A-01 | | | | 0.3370 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 207 | 2880 | 6 | | | PREP8LKARL | ND-A-01 | | | | 0.0172 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 208 | 2880 | 6 | | | PREP8LKARL | NI-A-01 | | | | 0.0005 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.02 | @ICP-A01 |
| 209 | 2880 | 6 | | | PREP8LKARL | P-A-01 | | | | 0.0546 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.2 | @ICP-A01 |
| 210 | 2880 | 6 | | | PREP8LKARL | PB-A-01 | | | | 0.0181 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 211 | 2880 | 6 | | | PREP8LKARL | S-A-01 | | | | 0.0427 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 212 | 2880 | 6 | | | PREP8LKARL | SB-A-01 | | | | 0.0526 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.2 | @ICP-A01 |
| 213 | 2880 | 6 | | | PREP8LKARL | SE-A-01 | | | | 0.0132 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 214 | 2880 | 6 | | | PREP8LKARL | SI-A-01 | | | | 0.0855 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 215 | 2880 | 6 | | | PREP8LKARL | SM-A-01 | | | | -0.0212 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.1 | @ICP-A01 |
| 216 | 2880 | 6 | | | PREP8LKARL | SR-A-01 | | | | 0.0006 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 217 | 2880 | 6 | | | PREP8LKARL | TI-A-01 | | | | 0.0000 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 218 | 2880 | 6 | | | PREP8LKARL | TL-A-01 | | | | 0.0080 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.2 | @ICP-A01 |
| 219 | 2880 | 6 | | | PREP8LKARL | U-A-01 | | | | -0.0972 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.4 | @ICP-A01 |
| 220 | 2880 | 6 | | | PREP8LKARL | V-A-01 | | | | 0.0018 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.05 | @ICP-A01 |
| 221 | 2880 | 6 | | | PREP8LKARL | ZN-A-01 | | | | 0.0094 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 222 | 2880 | 6 | | | PREP8LKARL | ZR-A-01 | | | | -0.0004 | | 1.0000 | 10/25/95 | 12:36 | dks | 0.01 | @ICP-A01 |
| 223 | 2880 | 7 | S95T002171 | | | AG-A-01 | | | < | 12.4146 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.01 | @ICP-A01 |
| 224 | 2880 | 7 | S95T002171 | | | AL-A-01 | | | | 23587.9623 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
| 225 | 2880 | 7 | S95T002171 | | | AS-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
| 226 | 2880 | 7 | S95T002171 | | | B-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
| 227 | 2880 | 7 | S95T002171 | | | BA-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
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| 235 | 2880 | 7 | S95T002171 | | | CU-A-01 | | | < | 12.4146 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.01 | @ICP-A01 |
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| 237 | 2880 | 7 | S95T002171 | | | K-A-01 | | | | 1528.4996 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.3 | @ICP-A01 |
| 238 | 2880 | 7 | S95T002171 | | | LA-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
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| 242 | 2880 | 7 | S95T002171 | | | MO-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
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| 246 | 2880 | 7 | S95T002171 | | | P-A-01 | | | | 5431.4583 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.2 | @ICP-A01 |
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| 249 | 2880 | 7 | S95T002171 | | | SB-A-01 | | | | 248.2930 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.2 | @ICP-A01 |
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| 254 | 2880 | 7 | S95T002171 | | | TI-A-01 | | | < | 12.4146 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.01 | @ICP-A01 |
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| 257 | 2880 | 7 | S95T002171 | | | V-A-01 | | | < | 62.0732 | | 1241.4649 | 10/25/95 | 12:46 | dks | 0.05 | @ICP-A01 |
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| 271 | 2880 | 8 | S95T002171 | | DUP | CR-A-01 | | 403.0170 | | 383.4706 | | 1230.4863 | 10/25/95 | 12:50 | dks | 0.01 | @ICP-A01 |
| 272 | 2880 | 8 | S95T002171 | | DUP | CU-A-01 | | <12.4146 | | <12.3047 | | 1230.4863 | 10/25/95 | 12:50 | dks | 0.01 | @ICP-A01 |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 273 | 2880 | 8 | 895T002171 | | DUP | FE-A-01 | | 2082.5738 | | 1988.7432 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.05 | @ICP-A01 |
| 274 | 2880 | 8 | 895T002171 | | DUP | K-A-01 | | 1528.4806 | | 1399.4917 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.3 | @ICP-A01 |
| 275 | 2880 | 8 | 895T002171 | | DUP | LA-A-01 | | <62.0732 | | <61.5233 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.05 | @ICP-A01 |
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| 278 | 2880 | 8 | 895T002171 | | DUP | MN-A-01 | | 16.1058 | | 14.2027 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.01 | @ICP-A01 |
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| 283 | 2880 | 8 | 895T002171 | | DUP | P-A-01 | | 5431.4563 | | 5144.4966 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.2 | @ICP-A01 |
| 284 | 2880 | 8 | 895T002171 | | DUP | PB-A-01 | | 191.8198 | | 210.1972 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.1 | @ICP-A01 |
| 285 | 2880 | 8 | 895T002171 | | DUP | S-A-01 | | 29173.3890 | | 27710.8487 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.05 | @ICP-A01 |
| 286 | 2880 | 8 | 895T002171 | | DUP | SB-A-01 | | <248.2930 | | <246.0933 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.2 | @ICP-A01 |
| 287 | 2880 | 8 | 895T002171 | | DUP | SE-A-01 | | <124.1465 | | <123.0466 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.1 | @ICP-A01 |
| 288 | 2880 | 8 | 895T002171 | | DUP | SI-A-01 | | 2014.1452 | | 1946.9844 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.05 | @ICP-A01 |
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| 291 | 2880 | 8 | 895T002171 | | DUP | TI-A-01 | | <12.4146 | | <12.3047 | | 1230.4683 | 10/25/95 | 12:50 | dks | 0.01 | @ICP-A01 |
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| 298 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | AL-A-01 | | n/a | | n/a | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
| 299 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | AS-A-01 | | 598.95 | | 591.1316 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
| 300 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | B-A-01 | | 598.95 | | 666.8066 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
| 301 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | BA-A-01 | | 598.95 | | 593.7077 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
| 302 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | BE-A-01 | | 598.95 | | 598.8429 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.005 | @ICP-A01 |
| 303 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | BI-A-01 | | 598.95 | | 628.2799 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.1 | @ICP-A01 |
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| 305 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | CD-A-01 | | 598.95 | | 581.1528 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.01 | @ICP-A01 |
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| 307 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | CO-A-01 | | 598.95 | | 582.2383 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.02 | @ICP-A01 |
| 308 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | CR-A-01 | | 598.95 | | 591.6027 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.01 | @ICP-A01 |
| 309 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | CU-A-01 | | 598.95 | | 551.9817 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.01 | @ICP-A01 |
| 310 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | FE-A-01 | | 598.95 | | 382.5766 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
| 311 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | K-A-01 | | 598.95 | | 675.7737 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.3 | @ICP-A01 |
| 312 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | LA-A-01 | | 598.95 | | 598.4985 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
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| 314 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | MG-A-01 | | 598.95 | | 621.8857 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.1 | @ICP-A01 |
| 315 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | MN-A-01 | | 598.95 | | 587.1989 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.01 | @ICP-A01 |
| 316 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | MO-A-01 | | 598.95 | | 577.3709 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.05 | @ICP-A01 |
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| 320 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | P-A-01 | | n/a | | n/a | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.2 | @ICP-A01 |
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| 329 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | TL-A-01 | | 598.95 | | 609.5031 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.2 | @ICP-A01 |
| 330 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | U-A-01 | | 1197.9 | | 1291.5136 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.4 | @ICP-A01 |
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| 333 | 2880 | 9 | 895T002171_S | | SPK-PREDIG | ZR-A-01 | | 598.95 | | 581.3254 | | 1197.8917 | 10/25/95 | 13:05 | dks | 0.01 | @ICP-A01 |
| 334 | 2880 | 10 | | | CCV | AG | | | | 5.0108 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 335 | 2880 | 10 | | | CCV | AL | | | | 4.9416 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 336 | 2880 | 10 | | | CCV | AS | | | | 5.0695 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 337 | 2880 | 10 | | | CCV | B | | | | 5.0929 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 338 | 2880 | 10 | | | CCV | BA | | | | 4.9573 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 339 | 2880 | 10 | | | CCV | BE | | | | 5.1763 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.005 | @ICP-QC |
| 340 | 2880 | 10 | | | CCV | BI | | | | 5.0100 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 341 | 2880 | 10 | | | CCV | CA | | | | 5.0130 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 342 | 2880 | 10 | | | CCV | CD | | | | 5.0607 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 343 | 2880 | 10 | | | CCV | CE | | | | 5.0204 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 344 | 2880 | 10 | | | CCV | CO | | | | 4.9611 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.02 | @ICP-QC |
| 345 | 2880 | 10 | | | CCV | CR | | | | 5.0380 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 346 | 2880 | 10 | | | CCV | CU | | | | 5.0399 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 347 | 2880 | 10 | | | CCV | FE | | | | 5.1307 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 348 | 2880 | 10 | | | CCV | K | | | | 5.1431 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.3 | @ICP-QC |
| 349 | 2880 | 10 | | | CCV | LA | | | | 5.0614 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 350 | 2880 | 10 | | | CCV | LI | | | | 4.9061 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 351 | 2880 | 10 | | | CCV | MG | | | | 4.9014 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 352 | 2880 | 10 | | | CCV | MN | | | | 5.0371 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 353 | 2880 | 10 | | | CCV | MO | | | | 4.9733 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 354 | 2880 | 10 | | | CCV | NA | | | | 4.9768 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 355 | 2880 | 10 | | | CCV | ND | | | | 5.3327 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 356 | 2880 | 10 | | | CCV | NI | | | | 5.0110 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.02 | @ICP-QC |
| 357 | 2880 | 10 | | | CCV | P | | | | 4.9847 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.2 | @ICP-QC |
| 358 | 2880 | 10 | | | CCV | PB | | | | 5.0778 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 359 | 2880 | 10 | | | CCV | S | | | | 4.9094 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 360 | 2880 | 10 | | | CCV | SB | | | | 4.7724 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.2 | @ICP-QC |
| 361 | 2880 | 10 | | | CCV | SE | | | | 5.1702 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 362 | 2880 | 10 | | | CCV | SI | | | | 4.9075 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 363 | 2880 | 10 | | | CCV | SM | | | | 4.8637 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.1 | @ICP-QC |
| 364 | 2880 | 10 | | | CCV | SR | | | | 4.9665 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 365 | 2880 | 10 | | | CCV | TI | | | | 4.7943 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 366 | 2880 | 10 | | | CCV | TL | | | | 4.8793 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.2 | @ICP-QC |
| 367 | 2880 | 10 | | | CCV | U | | | | 9.5635 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.4 | @ICP-QC |
| 368 | 2880 | 10 | | | CCV | V | | | | 4.9876 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.05 | @ICP-QC |
| 369 | 2880 | 10 | | | CCV | ZN | | | | 5.0666 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 370 | 2880 | 10 | | | CCV | ZR | | | | 4.9475 | | 1.0000 | 10/25/95 | 13:11 | dks | 0.01 | @ICP-QC |
| 371 | 2880 | 11 | | | CCB | AG | | | | 0.0007 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 372 | 2880 | 11 | | | CCB | AL | | | | -0.0225 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 373 | 2880 | 11 | | | CCB | AS | | | | 0.0144 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 374 | 2880 | 11 | | | CCB | B | | | | 0.0002 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 375 | 2880 | 11 | | | CCB | BA | | | | 0.0002 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 376 | 2880 | 11 | | | CCB | BE | | | | -0.0003 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.005 | @ICP-QC |
| 377 | 2880 | 11 | | | CCB | BI | | | | -0.0083 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 378 | 2880 | 11 | | | CCB | CA | | | | 0.0005 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 379 | 2880 | 11 | | | CCB | CD | | | | -0.0002 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 380 | 2880 | 11 | | | CCB | CE | | | | -0.0085 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 381 | 2880 | 11 | | | CCB | CO | | | | 0.0000 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.02 | @ICP-QC |
| 382 | 2880 | 11 | | | CCB | CR | | | | -0.0013 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 383 | 2880 | 11 | | | CCB | CU | | | | 0.0003 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 384 | 2880 | 11 | | | CCB | FE | | | | 0.0023 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 385 | 2880 | 11 | | | CCB | K | | | | -0.0712 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.3 | @ICP-QC |
| 386 | 2880 | 11 | | | CCB | LA | | | | 0.0020 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 387 | 2880 | 11 | | | CCB | LI | | | | 0.0005 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 388 | 2880 | 11 | | | CCB | MG | | | | -0.0001 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 389 | 2880 | 11 | | | CCB | MN | | | | 0.0002 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 390 | 2880 | 11 | | | CCB | MO | | | | 0.0004 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 391 | 2880 | 11 | | | CCB | NA | | | | 0.0080 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 392 | 2880 | 11 | | | CCB | ND | | | | 0.0160 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 393 | 2880 | 11 | | | CCB | NI | | | | -0.0023 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.02 | @ICP-QC |
| 394 | 2880 | 11 | | | CCB | P | | | | 0.0144 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.2 | @ICP-QC |
| 395 | 2880 | 11 | | | CCB | PB | | | | 0.0098 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 396 | 2880 | 11 | | | CCB | S | | | | 0.0082 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 397 | 2880 | 11 | | | CCB | SB | | | | -0.0063 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.2 | @ICP-QC |
| 398 | 2880 | 11 | | | CCB | SE | | | | 0.0080 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 399 | 2880 | 11 | | | CCB | SI | | | | -0.0025 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 400 | 2880 | 11 | | | CCB | SM | | | | -0.0298 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.1 | @ICP-QC |
| 401 | 2880 | 11 | | | CCB | SR | | | | 0.0002 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 402 | 2880 | 11 | | | CCB | TI | | | | -0.0010 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 403 | 2880 | 11 | | | CCB | TL | | | | -0.0174 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.2 | @ICP-QC |
| 404 | 2880 | 11 | | | CCB | U | | | | -0.0718 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.4 | @ICP-QC |
| 405 | 2880 | 11 | | | CCB | V | | | | -0.0017 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.05 | @ICP-QC |
| 406 | 2880 | 11 | | | CCB | ZN | | | | 0.0003 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 407 | 2880 | 11 | | | CCB | ZR | | | | -0.0019 | | 1.0000 | 10/25/95 | 13:16 | dks | 0.01 | @ICP-QC |
| 408 | 2880 | 12 | 895T002172 | | | AG-A-01 | | < | | 10.2869 | | 1028.6840 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 409 | 2880 | 12 | S95T002172 | | | AL-A-01 | | | | 24880.4053 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 410 | 2880 | 12 | S95T002172 | | | AS-A-01 | | | < | 51.3347 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 411 | 2880 | 12 | S95T002172 | | | B-A-01 | | | | 163.2503 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 412 | 2880 | 12 | S95T002172 | | | BA-A-01 | | | | 408.1904 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 413 | 2880 | 12 | S95T002172 | | | BE-A-01 | | | < | 5.1336 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.005 | @ICP-A01 |
| 414 | 2880 | 12 | S95T002172 | | | BI-A-01 | | | | 786.8465 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 415 | 2880 | 12 | S95T002172 | | | CA-A-01 | | | | 5738.7431 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 416 | 2880 | 12 | S95T002172 | | | CD-A-01 | | | < | 10.2669 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 417 | 2880 | 12 | S95T002172 | | | CE-A-01 | | | | 446.4614 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 418 | 2880 | 12 | S95T002172 | | | CO-A-01 | | | | 27.4411 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.02 | @ICP-A01 |
| 419 | 2880 | 12 | S95T002172 | | | CR-A-01 | | | | 2080.8706 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 420 | 2880 | 12 | S95T002172 | | | CU-A-01 | | | | 21.5687 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 421 | 2880 | 12 | S95T002172 | | | FE-A-01 | | | | 17777.1471 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 422 | 2880 | 12 | S95T002172 | | | K-A-01 | | | | 1551.9489 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.3 | @ICP-A01 |
| 423 | 2880 | 12 | S95T002172 | | | LA-A-01 | | | < | 51.3347 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 424 | 2880 | 12 | S95T002172 | | | LI-A-01 | | | < | 10.2669 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 425 | 2880 | 12 | S95T002172 | | | MG-A-01 | | | | 1073.8618 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 426 | 2880 | 12 | S95T002172 | | | MN-A-01 | | | | 281.5726 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 427 | 2880 | 12 | S95T002172 | | | MO-A-01 | | | < | 51.3347 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 428 | 2880 | 12 | S95T002172 | | | NA-A-01 | | | | 131703.1886 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 429 | 2880 | 12 | S95T002172 | | | ND-A-01 | | | < | 102.6694 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 430 | 2880 | 12 | S95T002172 | | | NI-A-01 | | | | 12211.6444 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.02 | @ICP-A01 |
| 431 | 2880 | 12 | S95T002172 | | | P-A-01 | | | | 14153.7736 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.2 | @ICP-A01 |
| 432 | 2880 | 12 | S95T002172 | | | PB-A-01 | | | | 1314.0364 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 433 | 2880 | 12 | S95T002172 | | | S-A-01 | | | | 6169.6084 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 434 | 2880 | 12 | S95T002172 | | | SB-A-01 | | | < | 205.3388 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.2 | @ICP-A01 |
| 435 | 2880 | 12 | S95T002172 | | | SE-A-01 | | | < | 102.6694 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 436 | 2880 | 12 | S95T002172 | | | SI-A-01 | | | | 3457.1300 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 437 | 2880 | 12 | S95T002172 | | | SM-A-01 | | | < | 102.6694 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.1 | @ICP-A01 |
| 438 | 2880 | 12 | S95T002172 | | | SR-A-01 | | | | 25634.7593 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 439 | 2880 | 12 | S95T002172 | | | TI-A-01 | | | | 36.3628 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 440 | 2880 | 12 | S95T002172 | | | TL-A-01 | | | < | 205.3388 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.2 | @ICP-A01 |
| 441 | 2880 | 12 | S95T002172 | | | U-A-01 | | | | 15427.6228 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.4 | @ICP-A01 |
| 442 | 2880 | 12 | S95T002172 | | | V-A-01 | | | < | 51.3347 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.05 | @ICP-A01 |
| 443 | 2880 | 12 | S95T002172 | | | ZN-A-01 | | | | 250.8206 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 444 | 2880 | 12 | S95T002172 | | | ZR-A-01 | | | < | 10.2669 | | 1026.6940 | 10/25/95 | 13:23 | dks | 0.01 | @ICP-A01 |
| 445 | 2880 | 13 | S95T002172 | | DUP | AG-A-01 | | <10.2669 | | <9.6339 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 446 | 2880 | 13 | S95T002172 | | DUP | AL-A-01 | | 24880.4053 | | 24810.1960 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 447 | 2880 | 13 | S95T002172 | | DUP | AS-A-01 | | <51.3347 | | <48.1696 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 448 | 2880 | 13 | S95T002172 | | DUP | B-A-01 | | 163.2503 | | 163.4262 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 449 | 2880 | 13 | S95T002172 | | DUP | BA-A-01 | | 408.1904 | | 404.8636 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 450 | 2880 | 13 | S95T002172 | | DUP | BE-A-01 | | <5.1335 | | <4.8170 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.005 | @ICP-A01 |
| 451 | 2880 | 13 | S95T002172 | | DUP | BI-A-01 | | 786.8465 | | 784.7386 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 452 | 2880 | 13 | S95T002172 | | DUP | CA-A-01 | | 5738.7431 | | 5805.4537 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 453 | 2880 | 13 | S95T002172 | | DUP | CD-A-01 | | <10.2669 | | <9.6339 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 454 | 2880 | 13 | S95T002172 | | DUP | CE-A-01 | | 446.4614 | | 446.2896 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 455 | 2880 | 13 | S95T002172 | | DUP | CO-A-01 | | 27.4411 | | <19.2678 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.02 | @ICP-A01 |
| 456 | 2880 | 13 | S95T002172 | | DUP | CR-A-01 | | 2080.8706 | | 2058.0068 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 457 | 2880 | 13 | S95T002172 | | DUP | CU-A-01 | | 21.5687 | | 22.9267 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 458 | 2880 | 13 | S95T002172 | | DUP | FE-A-01 | | 17777.1471 | | 17669.0175 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 459 | 2880 | 13 | S95T002172 | | DUP | K-A-01 | | 1551.9489 | | 1464.8376 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.3 | @ICP-A01 |
| 460 | 2880 | 13 | S95T002172 | | DUP | LA-A-01 | | <51.3347 | | <48.1696 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 461 | 2880 | 13 | S95T002172 | | DUP | LI-A-01 | | <10.2669 | | <9.6339 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 462 | 2880 | 13 | S95T002172 | | DUP | MG-A-01 | | 1073.8618 | | 1007.3869 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 463 | 2880 | 13 | S95T002172 | | DUP | MN-A-01 | | 281.5726 | | 280.5014 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 464 | 2880 | 13 | S95T002172 | | DUP | MO-A-01 | | <51.3347 | | <48.1696 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 465 | 2880 | 13 | S95T002172 | | DUP | NA-A-01 | | 131703.1886 | | 130021.4420 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 466 | 2880 | 13 | S95T002172 | | DUP | ND-A-01 | | <102.6694 | | <96.3391 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 467 | 2880 | 13 | S95T002172 | | DUP | NI-A-01 | | 12211.6444 | | 12087.5258 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.02 | @ICP-A01 |
| 468 | 2880 | 13 | S95T002172 | | DUP | P-A-01 | | 14153.7736 | | 13736.1069 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.2 | @ICP-A01 |
| 469 | 2880 | 13 | S95T002172 | | DUP | PB-A-01 | | 1314.0364 | | 1323.0612 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 470 | 2880 | 13 | S95T002172 | | DUP | S-A-01 | | 6169.6084 | | 6062.0218 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 471 | 2880 | 13 | S95T002172 | | DUP | SB-A-01 | | <205.3388 | | 210.7163 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.2 | @ICP-A01 |
| 472 | 2880 | 13 | S95T002172 | | DUP | SE-A-01 | | <102.6694 | | <96.3391 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 473 | 2880 | 13 | S95T002172 | | DUP | SI-A-01 | | 3457.1300 | | 3341.4313 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 474 | 2880 | 13 | S95T002172 | | DUP | SM-A-01 | | <102.6694 | | <96.3391 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.1 | @ICP-A01 |
| 475 | 2880 | 13 | S95T002172 | | DUP | SR-A-01 | | 25634.7593 | | 25519.2946 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 476 | 2880 | 13 | S95T002172 | | DUP | TI-A-01 | | 36.3628 | | 32.9447 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 477 | 2880 | 13 | S95T002172 | | DUP | TL-A-01 | | <205.3388 | | <192.6782 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.2 | @ICP-A01 |
| 478 | 2880 | 13 | S95T002172 | | DUP | U-A-01 | | 15427.6228 | | 15413.5879 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.4 | @ICP-A01 |
| 479 | 2880 | 13 | S95T002172 | | DUP | V-A-01 | | <51.3347 | | <48.1696 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.05 | @ICP-A01 |
| 480 | 2880 | 13 | S95T002172 | | DUP | ZN-A-01 | | 250.8206 | | 247.2353 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 481 | 2880 | 13 | S95T002172 | | DUP | ZR-A-01 | | <10.2669 | | <9.6339 | | 963.3911 | 10/25/95 | 13:26 | dks | 0.01 | @ICP-A01 |
| 482 | 2880 | 14 | | | ICSA | AG | | | | 0.0023 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 483 | 2880 | 14 | | | ICSA | AL | | | | 200.2659 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 484 | 2880 | 14 | | | ICSA | AS | | | | 0.0158 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 485 | 2880 | 14 | | | ICSA | B | | | | 0.0115 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 486 | 2880 | 14 | | | ICSA | BA | | | | 0.0042 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 487 | 2880 | 14 | | | ICSA | BE | | | | 0.0022 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.005 | @ICP-QC |
| 488 | 2880 | 14 | | | ICSA | BI | | | | -0.0496 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 489 | 2880 | 14 | | | ICSA | CA | | | | 99.7236 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 490 | 2880 | 14 | | | ICSA | CD | | | | 0.0038 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 491 | 2880 | 14 | | | ICSA | CE | | | | 0.0102 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 492 | 2880 | 14 | | | ICSA | CO | | | | 0.0029 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.02 | @ICP-QC |
| 493 | 2880 | 14 | | | ICSA | CR | | | | -0.0021 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 494 | 2880 | 14 | | | ICSA | CU | | | | 0.0037 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 495 | 2880 | 14 | | | ICSA | FE | | | | 97.6297 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 496 | 2880 | 14 | | | ICSA | K | | | | -0.0381 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.3 | @ICP-QC |
| 497 | 2880 | 14 | | | ICSA | LA | | | | 0.0029 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 498 | 2880 | 14 | | | ICSA | LI | | | | 0.0003 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 499 | 2880 | 14 | | | ICSA | MG | | | | 102.2546 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 500 | 2880 | 14 | | | ICSA | MN | | | | 0.0083 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 501 | 2880 | 14 | | | ICSA | MO | | | | 0.0023 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 502 | 2880 | 14 | | | ICSA | NA | | | | 186.6867 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 503 | 2880 | 14 | | | ICSA | ND | | | | 0.0043 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 504 | 2880 | 14 | | | ICSA | NI | | | | 0.0081 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.02 | @ICP-QC |
| 505 | 2880 | 14 | | | ICSA | P | | | | 0.0482 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.2 | @ICP-QC |
| 506 | 2880 | 14 | | | ICSA | PB | | | | 0.0071 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 507 | 2880 | 14 | | | ICSA | S | | | | 0.0136 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 508 | 2880 | 14 | | | ICSA | SB | | | | 0.3128 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.2 | @ICP-QC |
| 509 | 2880 | 14 | | | ICSA | SE | | | | 0.0077 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 510 | 2880 | 14 | | | ICSA | SI | | | | 0.0282 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 511 | 2880 | 14 | | | ICSA | SM | | | | -0.0002 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.1 | @ICP-QC |
| 512 | 2880 | 14 | | | ICSA | SR | | | | 0.0022 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 513 | 2880 | 14 | | | ICSA | TI | | | | -0.0004 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 514 | 2880 | 14 | | | ICSA | TL | | | | -0.0153 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.2 | @ICP-QC |
| 515 | 2880 | 14 | | | ICSA | U | | | | -0.0875 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.4 | @ICP-QC |
| 516 | 2880 | 14 | | | ICSA | V | | | | 0.0006 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.05 | @ICP-QC |
| 517 | 2880 | 14 | | | ICSA | ZN | | | | -0.0053 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 518 | 2880 | 14 | | | ICSA | ZR | | | | 0.0053 | | 1.0000 | 10/25/95 | 13:33 | dks | 0.01 | @ICP-QC |
| 519 | 2880 | 15 | | | ICSAB | AG | | | | 1.0119 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 520 | 2880 | 15 | | | ICSAB | AL | | | | 197.5799 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 521 | 2880 | 15 | | | ICSAB | AS | | | | 0.0247 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 522 | 2880 | 15 | | | ICSAB | B | | | | 0.0167 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 523 | 2880 | 15 | | | ICSAB | BA | | | | 0.4807 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 524 | 2880 | 15 | | | ICSAB | BE | | | | 0.4996 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.005 | @ICP-QC |
| 525 | 2880 | 15 | | | ICSAB | BI | | | | -0.0362 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 526 | 2880 | 15 | | | ICSAB | CA | | | | 99.5405 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 527 | 2880 | 15 | | | ICSAB | CD | | | | 0.9842 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 528 | 2880 | 15 | | | ICSAB | CE | | | | 0.0121 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 529 | 2880 | 15 | | | ICSAB | CO | | | | 0.4880 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.02 | @ICP-QC |
| 530 | 2880 | 15 | | | ICSAB | CR | | | | 0.4847 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 531 | 2880 | 15 | | | ICSAB | CU | | | | 0.4920 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 532 | 2880 | 15 | | | ICSAB | FE | | | | 97.2036 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 533 | 2880 | 15 | | | ICSAB | K | | | | 0.0640 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.3 | @ICP-QC |
| 534 | 2880 | 15 | | | ICSAB | LA | | | | 0.0064 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 535 | 2880 | 15 | | | ICSAB | LI | | | | 0.9071 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 536 | 2880 | 15 | | | ICSAB | MG | | | | 103.5655 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 537 | 2880 | 15 | | | ICSAB | MN | | | | 0.5017 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 538 | 2880 | 15 | | | ICSAB | MO | | | | 0.0001 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 539 | 2880 | 15 | | | ICSAB | NA | | | | 184.7976 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 540 | 2880 | 15 | | | ICSAB | ND | | | | 0.0009 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 541 | 2880 | 15 | | | ICSAB | NI | | | | 0.9867 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.02 | @ICP-QC |
| 542 | 2880 | 15 | | | ICSAB | P | | | | 0.0580 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.2 | @ICP-QC |
| 543 | 2880 | 15 | | | ICSAB | PB | | | | 0.9825 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 544 | 2880 | 15 | | | ICSAB | S | | | | 0.0269 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 646 | 2880 | 15 | | | ICSAB | BB | | | | 0.3089 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.2 | @ICP-QC |
| 645 | 2880 | 15 | | | ICSAB | BE | | | | 0.0011 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 647 | 2880 | 15 | | | ICSAB | BI | | | | 0.0362 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 648 | 2880 | 15 | | | ICSAB | SM | | | | 0.0165 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.1 | @ICP-QC |
| 649 | 2880 | 15 | | | ICSAB | SR | | | | 0.0016 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 650 | 2880 | 15 | | | ICSAB | TI | | | | -0.0002 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 651 | 2880 | 15 | | | ICSAB | TL | | | | 0.0299 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.2 | @ICP-QC |
| 652 | 2880 | 15 | | | ICSAB | U | | | | -0.0171 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.4 | @ICP-QC |
| 653 | 2880 | 15 | | | ICSAB | V | | | | 0.4822 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.05 | @ICP-QC |
| 654 | 2880 | 15 | | | ICSAB | ZN | | | | 0.9879 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 655 | 2880 | 15 | | | ICSAB | ZR | | | | 0.0035 | | 1.0000 | 10/25/95 | 13:36 | dks | 0.01 | @ICP-QC |
| 656 | 2880 | 16 | | | CCV | AG | | | | 4.9421 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 657 | 2880 | 16 | | | CCV | AL | | | | 4.9234 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 658 | 2880 | 16 | | | CCV | AS | | | | 5.0314 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 659 | 2880 | 16 | | | CCV | B | | | | 5.0779 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 660 | 2880 | 16 | | | CCV | BA | | | | 4.9805 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 661 | 2880 | 16 | | | CCV | BE | | | | 5.1671 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.005 | @ICP-QC |
| 662 | 2880 | 16 | | | CCV | BI | | | | 4.9769 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 663 | 2880 | 16 | | | CCV | CA | | | | 5.0118 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 664 | 2880 | 16 | | | CCV | CD | | | | 5.0331 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 665 | 2880 | 16 | | | CCV | CE | | | | 4.9867 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 666 | 2880 | 16 | | | CCV | CO | | | | 4.9391 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.02 | @ICP-QC |
| 667 | 2880 | 16 | | | CCV | CR | | | | 4.9990 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 668 | 2880 | 16 | | | CCV | CU | | | | 5.0423 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 669 | 2880 | 16 | | | CCV | FE | | | | 5.1233 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 670 | 2880 | 16 | | | CCV | K | | | | 5.0946 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.3 | @ICP-QC |
| 671 | 2880 | 16 | | | CCV | LA | | | | 5.0510 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 672 | 2880 | 16 | | | CCV | LI | | | | 4.9814 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 673 | 2880 | 16 | | | CCV | MG | | | | 4.9824 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 674 | 2880 | 16 | | | CCV | MN | | | | 5.0130 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 675 | 2880 | 16 | | | CCV | MO | | | | 4.9180 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 676 | 2880 | 16 | | | CCV | NA | | | | 4.9434 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 677 | 2880 | 16 | | | CCV | ND | | | | 5.4041 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 678 | 2880 | 16 | | | CCV | NI | | | | 4.9838 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.02 | @ICP-QC |
| 679 | 2880 | 16 | | | CCV | P | | | | 4.9823 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.2 | @ICP-QC |
| 680 | 2880 | 16 | | | CCV | PB | | | | 5.0574 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 681 | 2880 | 16 | | | CCV | S | | | | 4.9213 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 682 | 2880 | 16 | | | CCV | SB | | | | 4.7905 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.2 | @ICP-QC |
| 683 | 2880 | 16 | | | CCV | SE | | | | 5.1293 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 684 | 2880 | 16 | | | CCV | SI | | | | 4.8712 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 685 | 2880 | 16 | | | CCV | SM | | | | 4.8796 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.1 | @ICP-QC |
| 686 | 2880 | 16 | | | CCV | SR | | | | 4.9531 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 687 | 2880 | 16 | | | CCV | TI | | | | 4.7712 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.01 | @ICP-QC |
| 688 | 2880 | 16 | | | CCV | TL | | | | 4.9065 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.2 | @ICP-QC |
| 689 | 2880 | 16 | | | CCV | U | | | | 9.6074 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.4 | @ICP-QC |
| 690 | 2880 | 16 | | | CCV | V | | | | 4.9466 | | 1.0000 | 10/25/95 | 12:41 | dks | 0.05 | @ICP-QC |
| 691 | 2880 | 16 | | | CCV | ZN | | | | 4.9863 | | 1.0000 | 10/25/95 | 13:41 | dks | 0.01 | @ICP-QC |
| 692 | 2880 | 16 | | | CCV | ZR | | | | 4.9377 | | 1.0000 | 10/25/95 | 13:41 | dks | 0.01 | @ICP-QC |
| 693 | 2880 | 17 | | | CCB | AG | | | | 0.0021 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 694 | 2880 | 17 | | | CCB | AL | | | | -0.0061 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 695 | 2880 | 17 | | | CCB | AS | | | | 0.0183 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 696 | 2880 | 17 | | | CCB | B | | | | -0.0003 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 697 | 2880 | 17 | | | CCB | BA | | | | 0.0004 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 698 | 2880 | 17 | | | CCB | BE | | | | -0.0001 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.005 | @ICP-QC |
| 699 | 2880 | 17 | | | CCB | BI | | | | -0.0144 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 700 | 2880 | 17 | | | CCB | CA | | | | 0.0009 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 701 | 2880 | 17 | | | CCB | CD | | | | 0.0012 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 702 | 2880 | 17 | | | CCB | CE | | | | 0.0211 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 703 | 2880 | 17 | | | CCB | CO | | | | -0.0010 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.02 | @ICP-QC |
| 704 | 2880 | 17 | | | CCB | CR | | | | -0.0038 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 705 | 2880 | 17 | | | CCB | CU | | | | 0.0006 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 706 | 2880 | 17 | | | CCB | FE | | | | -0.0013 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 707 | 2880 | 17 | | | CCB | K | | | | -0.0279 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.3 | @ICP-QC |
| 708 | 2880 | 17 | | | CCB | LA | | | | 0.0016 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 709 | 2880 | 17 | | | CCB | LI | | | | 0.0006 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 710 | 2880 | 17 | | | CCB | MG | | | | 0.0000 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 711 | 2880 | 17 | | | CCB | MN | | | | 0.0002 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 712 | 2880 | 17 | | | CCB | MO | | | | 0.0023 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 713 | 2880 | 17 | | | CCB | NA | | | | 0.0114 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 714 | 2880 | 17 | | | CCB | ND | | | | 0.0096 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 715 | 2880 | 17 | | | CCB | NI | | | | -0.0010 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.02 | @ICP-QC |
| 716 | 2880 | 17 | | | CCB | P | | | | 0.0004 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.2 | @ICP-QC |
| 717 | 2880 | 17 | | | CCB | PB | | | | 0.0080 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 718 | 2880 | 17 | | | CCB | S | | | | 0.0053 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 719 | 2880 | 17 | | | CCB | SB | | | | 0.0941 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.2 | @ICP-QC |
| 720 | 2880 | 17 | | | CCB | SE | | | | 0.0036 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 721 | 2880 | 17 | | | CCB | SI | | | | 0.0040 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 722 | 2880 | 17 | | | CCB | SM | | | | -0.0238 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.1 | @ICP-QC |
| 723 | 2880 | 17 | | | CCB | SR | | | | 0.0002 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 724 | 2880 | 17 | | | CCB | TI | | | | 0.0001 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 725 | 2880 | 17 | | | CCB | TL | | | | -0.0149 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.2 | @ICP-QC |
| 726 | 2880 | 17 | | | CCB | U | | | | 0.0195 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.4 | @ICP-QC |
| 727 | 2880 | 17 | | | CCB | V | | | | 0.0002 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.05 | @ICP-QC |
| 728 | 2880 | 17 | | | CCB | ZN | | | | 0.0002 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 729 | 2880 | 17 | | | CCB | ZR | | | | 0.0001 | | 1.0000 | 10/25/95 | 14:09 | dks | 0.01 | @ICP-QC |
| 730 | 2880 | 18 | | | CCB | AG | | | | 0.0014 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 731 | 2880 | 18 | | | CCB | AL | | | | -0.0074 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 732 | 2880 | 18 | | | CCB | AS | | | | 0.0053 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 733 | 2880 | 18 | | | CCB | B | | | | 0.0008 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 734 | 2880 | 18 | | | CCB | BA | | | | 0.0005 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 735 | 2880 | 18 | | | CCB | BE | | | | 0.0000 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.005 | @ICP-QC |
| 736 | 2880 | 18 | | | CCB | BI | | | | -0.0180 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 737 | 2880 | 18 | | | CCB | CA | | | | 0.0005 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 738 | 2880 | 18 | | | CCB | CD | | | | 0.0008 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 739 | 2880 | 18 | | | CCB | CE | | | | 0.0280 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 740 | 2880 | 18 | | | CCB | CO | | | | 0.0057 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.02 | @ICP-QC |
| 741 | 2880 | 18 | | | CCB | CR | | | | -0.0013 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 742 | 2880 | 18 | | | CCB | CU | | | | 0.0007 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 743 | 2880 | 18 | | | CCB | FE | | | | 0.0017 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 744 | 2880 | 18 | | | CCB | K | | | | 0.0484 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.3 | @ICP-QC |
| 745 | 2880 | 18 | | | CCB | LA | | | | 0.0028 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 746 | 2880 | 18 | | | CCB | LI | | | | 0.0010 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 747 | 2880 | 18 | | | CCB | MG | | | | -0.0000 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 748 | 2880 | 18 | | | CCB | MN | | | | 0.0003 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 749 | 2880 | 18 | | | CCB | MO | | | | 0.0006 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 750 | 2880 | 18 | | | CCB | NA | | | | 0.0160 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 751 | 2880 | 18 | | | CCB | ND | | | | 0.0218 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 752 | 2880 | 18 | | | CCB | NI | | | | -0.0008 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.02 | @ICP-QC |
| 753 | 2880 | 18 | | | CCB | P | | | | 0.0145 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.2 | @ICP-QC |
| 754 | 2880 | 18 | | | CCB | PB | | | | -0.0191 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 755 | 2880 | 18 | | | CCB | S | | | | 0.0020 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 756 | 2880 | 18 | | | CCB | SB | | | | 0.1570 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.2 | @ICP-QC |
| 757 | 2880 | 18 | | | CCB | SE | | | | -0.0322 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 758 | 2880 | 18 | | | CCB | SI | | | | -0.0061 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 759 | 2880 | 18 | | | CCB | SM | | | | -0.0286 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.1 | @ICP-QC |
| 760 | 2880 | 18 | | | CCB | SR | | | | 0.0003 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 761 | 2880 | 18 | | | CCB | TI | | | | -0.0006 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 762 | 2880 | 18 | | | CCB | TL | | | | 0.0168 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.2 | @ICP-QC |
| 763 | 2880 | 18 | | | CCB | U | | | | -0.0829 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.4 | @ICP-QC |
| 764 | 2880 | 18 | | | CCB | V | | | | 0.0001 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.05 | @ICP-QC |
| 765 | 2880 | 18 | | | CCB | ZN | | | | 0.0002 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |
| 766 | 2880 | 18 | | | CCB | ZR | | | | -0.0016 | | 1.0000 | 10/25/95 | 14:12 | dks | 0.01 | @ICP-QC |

DP 145, REV. 1

633

**LABCORE Data Entry Template for Worklist# 2881**

**Analyst:** B. GOECKE **Instrument:** ~~ICP01~~ ICP02 **Book#** 48B48B

**Method:** LA-505-~~151~~/161 Rev/Mod B-1

**Worklist Comment:** ICP BY-108 (ACID DIGEST)

| S | Type | Sample# | R | A | Test | Matrix | Group# | Project |
|---|---|---|---|---|---|---|---|---|
| 1 | ICV | | | | @ICP-QC | QC | | |
| 2 | ICB | | | | @ICP-QC | QC | | |
| 3 | ICSA | | | | @ICP-QC | QC | | |
| 4 | ICSAB | | | | @ICP-QC | QC | | |
| 5 | PREPSTDTJA | | | | @ICP-A01 | SOLID | | |
| 6 | PREPBLKTJA | | | | @ICP-A01 | SOLID | | |
| 7 | SAMPLE | S95T002174 | 0 | A | @ICP-A01 | SOLID | 95000118 | BY-108 (R) |
| | | **Analytes Requested:** | | | AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01 | | | |
| 8 | DUP | S95T002174 | 0 | A | @ICP-A01 | SOLID | | |
| 9 | SPK-PREDIG | S95T002174 | 0 | A | @ICP-A01 | SOLID | | |
| 10 | CCV | | | | @ICP-QC | QC | | |
| 11 | CCB | | | | @ICP-QC | QC | | |
| 12 | SAMPLE | S95T002175 | 0 | A | @ICP-A01 | SOLID | 95000118 | BY-108 (R) |
| | | **Analytes Requested:** | | | AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01 | | | |

*Data Entry Comments:*

*S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

## LABCORE Data Entry Template for Worklist# 2881

| S | Type | Sample# | R | A | Test | Matrix | Group# | Project |
|---|---|---|---|---|---|---|---|---|
| 13 | DUP | S95T002175 | 0 | A | @ICP-A01 | SOLID | | |
| 14 | ICSA | | | | @ICP-QC | QC | | |
| 15 | ICSAB | | | | @ICP-QC | QC | | |
| 16 | CCV | | | | @ICP-QC | QC | | |
| 17 | CCB | | | | @ICP-QC | QC | | |

**Final page for worklist # 2881**

Analyst Signature: [signature] Date: 10-26-95

Reviewed by:
Analyst Signature: Samuel M. Parsons Date: 10/30/95

| | | DF |
|---|---|---|
| PREPBATCH TSA | 5mL Et. (with IA+2) in 100mL, Direct | 1 |
| PREPBLK TSA | 100mL, Direct | 1 |
| S95T002174-L | .2106g in 100mL - 2mL - 5mL - 2mL - 5mL | 11,871 |
| S95T002174 | .2106g in 100mL - 2mL - 5mL | 2374 |
| S95T002174-D | .1928g in 100mL - 2mL - 5mL | 2593 |
| S95T002174-S | .2151g in 100mL - 2mL - 5mL | 2324 |
| S95T002175-L | .3355g in 100mL - 2mL - 5mL - 2mL - 5mL | 7452 |
| S95T002175 | .3355g in 100mL - 2mL - 5mL | 1490 |
| S95T002175-D | .3370g in 100mL - 2mL - 5mL | 1484 |

*Data Entry Comments:*

*S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 1 | ICV | 951026A | ICP2 | 10/26/95 | 13:15 | BJG | Q | CONC |
| 2 | ICB | 951026A | ICP2 | 10/26/95 | 13:18 | BJG | Q | CONC |
| 3 | ICSA | 951026A | ICP2 | 10/26/95 | 13:21 | BJG | Q | CONC |
| 4 | ICSAB | 951026A | ICP2 | 10/26/95 | 13:24 | BJG | Q | CONC |
| 5 | PREPSTDTJA | 951026A | ICP2 | 10/26/95 | 13:28 | BJG | S | CONC |
| 6 | PREPBLKTJA | 951026A | ICP2 | 10/26/95 | 13:31 | BJG | S | CONC |
| 7 | S95T002174_L | 951026A | ICP2 | 10/26/95 | 13:34 | BJG | S | CONC |
| 8 | S95T002174 | 951026A | ICP2 | 10/26/95 | 13:37 | BJG | S | CONC |
| 9 | S95T002174_D | 951026A | ICP2 | 10/26/95 | 13:42 | BJG | S | CONC |
| 10 | S95T002174_S | 951026A | ICP2 | 10/26/95 | 13:45 | BJG | S | CONC |
| 11 | CCV | 951026A | ICP2 | 10/26/95 | 13:50 | BJG | Q | CONC |
| 12 | CCB | 951026A | ICP2 | 10/26/95 | 13:53 | BJG | Q | CONC |
| 13 | S95T002175_L | 951026A | ICP2 | 10/26/95 | 13:56 | BJG | S | CONC |
| 14 | S95T002175 | 951026A | ICP2 | 10/26/95 | 13:59 | BJG | S | CONC |
| 15 | S95T002175_D | 951026A | ICP2 | 10/26/95 | 14:03 | BJG | S | CONC |
| 16 | ICSA | 951026A | ICP2 | 10/26/95 | 14:06 | BJG | Q | CONC |
| ~~17~~ | ~~ICSAB~~ 10-26-95 | 951026A | ICP2 | 10/26/95 | 14:09 | BJG | Q | CONC |
| 18 | ICSAB | 951026A | ICP2 | 10/26/95 | 14:14 | BJG | Q | CONC |
| 19 | CCV_1 | 951026A | ICP2 | 10/26/95 | 14:17 | BJG | Q | CONC |
| 20 | CCB_1 | 951026A | ICP2 | 10/26/95 | 14:20 | BJG | Q | CONC |

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10-26-95
BY-108
S95T002174,75
ACID DIGEST

WHC-SD-WM-DP-145, REV 1

**SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 636 TO 640.**

| # | Sample Name | Ag | Al | As | B | Ba | Be |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 5.039 | 4.875 | 5.108 | 5.004 | 5.035 | 5.144 |
| 2 | ICB | .0019 | .0071 | .0071 | .0064 | .0002 | .0001 |
| 3 | ICSA | -.0101 | 240.8 | -.0102 | -.0023 | .0019 | .0001 |
| 4 | ICSAB | .9545 | 238.7 | -.0124 | -.0057 | .4742 | .4762 |
| 5 | PREPSTDTJA | .9556 | 5.005 | 4.877 | 5.733 | 4.899 | 5.272 |
| 6 | PREPBLKTJA | .0021 | .0151 | .0063 | .0272 | .0008 | .0001 |
| 7 | S95T002174_L | 12.91 | 24870. | 166.7 | 81.39 | 614.9 | .9559 |
| 8 | S95T002174 | -1.200 | 24210. | 41.85 | 43.30 | 599.5 | .5425 |
| 9 | S95T002174_D | -.2362 | 24250. | 25.38 | 122.6 | 598.1 | .5237 |
| 10 | S95T002174_S | 454.7 | 27560. | 2367. | 2311. | 2856. | 2317. |
| 11 | CCV | 5.115 | 5.002 | 5.257 | 5.164 | 5.213 | 5.295 |
| 12 | CCB | .0022 | .0110 | .0159 | .0055 | .0001 | .0001 |
| 13 | S95T002175_L | 8.347 | 21560. | -9.110 | 30.31 | 255.6 | 1.194 |
| 14 | S95T002175 | -4.099 | 20950. | -6.499 | 30.78 | 249.0 | .4544 |
| 15 | S95T002175_D | -3.052 | 22270. | -11.30 | 35.96 | 263.3 | .3786 |
| 16 | ICSA | -.0112 | 245.3 | -.0590 | -.0041 | .0019 | .0002 |
| 17 | ICSAB | Q-.0110 | 245.9 | -.0154 | -.0033 | Q.0018 | Q.0002 |
| 18 | ICSAB | .9692 | 244.0 | -.0084 | -.0008 | .4885 | .4905 |
| 19 | CCV_1 | 5.096 | 4.983 | 5.260 | 5.154 | 5.247 | 5.323 |
| 20 | CCB_1 | .0016 | .0098 | .0108 | .0106 | .0001 | .0002 |

| # | Sample Name | Bi | Ca | Cd | Ce | Co | Cr |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 5.096 | 5.200 | 5.076 | 5.155 | 5.092 | 5.140 |
| 2 | ICB | -.0076 | .0043 | .0009 | .0135 | .0018 | .0006 |
| 3 | ICSA | .0058 | 245.0 | .0032 | .0183 | .0023 | .0074 |
| 4 | ICSAB | -.0025 | 250.3 | .9440 | .0112 | .4706 | .4693 |
| 5 | PREPSTDTJA | 4.778 | 5.056 | 4.777 | 5.039 | 4.906 | 4.893 |
| 6 | PREPBLKTJA | .0072 | .1132 | .0013 | .0115 | .0034 | .0018 |
| 7 | S95T002174_L | 1860. | 6684. | 12.90 | -16.58 | 11.38 | 1247. |
| 8 | S95T002174 | 2169. | 6357. | 1.136 | -72.96 | 8.098 | 1197. |
| 9 | S95T002174_D | 1799. | 6053. | 4.296 | -80.46 | 10.09 | 1097. |
| 10 | S95T002174_S | 3962. | 8958. | 2230. | 2278. | 2258. | 3336. |
| 11 | CCV | 5.246 | 5.303 | 5.150 | 5.325 | 5.169 | 5.209 |
| 12 | CCB | -.0040 | .0009 | .0018 | .0063 | .0002 | .0008 |
| 13 | S95T002175_L | 1641. | 17080. | 10.02 | 77.00 | 16.00 | 226.9 |
| 14 | S95T002175 | 1715. | 16390. | 2.470 | 21.51 | 5.719 | 217.3 |
| 15 | S95T002175_D | 1771. | 17390. | 2.298 | 33.08 | 6.379 | 233.3 |
| 16 | ICSA | -.0288 | 246.9 | .0028 | .0135 | .0034 | .0070 |
| 17 | ICSAB | .0024 | 252.0 | Q.0017 | .0132 | Q.0034 | Q.0059 |
| 18 | ICSAB | -.0272 | 254.6 | .9590 | .0134 | .4775 | .4765 |
| 19 | CCV_1 | 5.202 | 5.319 | 5.149 | 5.346 | 5.155 | 5.211 |
| 20 | CCB_1 | -.0156 | .0004 | .0008 | .0057 | .0016 | .0008 |

| # | Sample Name | Cu | Eu | Fe | K | La | Li |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 5.116 | .0085 | 5.103 | 5.014 | 5.066 | 5.035 |
| 2 | ICB | -.0000 | .0003 | .0017 | .2182 | .0023 | .0001 |
| 3 | ICSA | -.0096 | -.0083 | 91.49 | .5096 | -.0028 | .0027 |
| 4 | ICSAB | .4827 | -.0122 | 92.75 | .3433 | -.0029 | .9759 |
| 5 | PREPSTDTJA | 4.859 | .0067 | 4.846 | 4.933 | 4.960 | 4.879 |

WHC-SD-WM-DP-145, REV. 1

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| # | Sample Name | Cu | Eu | Fe | K | La | Li |
|---|---|---|---|---|---|---|---|
| 6 | PREPBLKTJA | .0026 | -.0010 | .0169 | .4016 | .0021 | -.0009 |
| 7 | S95T002174_L | 17.01 | 9.449 | 31990. | 4552. | 43.47 | 3.018 |
| 8 | S95T002174_ | 18.45 | 4.353 | 30690. | 1941. | 35.79 | 1.956 |
| 9 | S95T002174_D | 19.11 | 2.567 | 26480. | 2135. | 34.10 | 1.749 |
| 10 | S95T002174_S | 2102. | 6.134 | 25160. | 4390. | 2340. | 2322. |
| 11 | CCV | 5.306 | .0072 | 5.213 | 5.165 | 5.220 | 5.269 |
| 12 | CCB | .0008 | -.0007 | .0017 | .1474 | .0010 | -.0009 |
| 13 | S95T002175_L | 20.16 | 8.725 | 39230. | 2969. | 48.35 | -4.903 |
| 14 | S95T002175_ | 18.35 | 12.03 | 37580. | 1888. | 41.20 | 1.393 |
| 15 | S95T002175_D | 20.30 | 13.55 | 39950. | 2109. | 43.08 | 2.487 |
| 16 | ICSA | -.0096 | -.0063 | 92.49 | .2294 | -.0036 | .0015 |
| 17 | ICSAB | Q-.0100 | -.0118 | 93.62 | .2696 | -.0031 | Q.0019 |
| 18 | ICSAB | .4983 | -.0134 | 94.64 | .2355 | -.0026 | 1.009 |
| 19 | CCV_1 | 5.330 | .0074 | 5.211 | 5.232 | 5.257 | 5.289 |
| 20 | CCB_1 | -.0002 | -.0004 | .0015 | .2249 | .0013 | -.0007 |

| # | Sample Name | Mg | Mn | Mo | Na | Nd | Ni |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 4.949 | 4.984 | 5.116 | 5.027 | 5.110 | 5.057 |
| 2 | ICB | .0044 | .0003 | .0054 | -.0007 | .0016 | .0050 |
| 3 | ICSA | 245.0 | -.0059 | -.0057 | 196.4 | .0044 | -.0112 |
| 4 | ICSAB | 244.7 | .4472 | -.0124 | 194.5 | .0128 | .9031 |
| 5 | PREPSTDTJA | 4.721 | 4.776 | 4.932 | 5.937 | 4.848 | 4.855 |
| 6 | PREPBLKTJA | .0220 | .0003 | .0053 | .2922 | .0057 | -.0040 |
| 7 | S95T002174_L | 1440. | 428.3 | 18.83 | 127200. | 224.3 | 13320. |
| 8 | S95T002174_ | 1297. | 409.2 | 1.608 | 124600. | 202.4 | 12750. |
| 9 | S95T002174_D | 1242. | 353.2 | 3.095 | 131200. | 204.8 | 12940. |
| 10 | S95T002174_S | 3507. | 2484. | 2275. | 129900. | 2469. | 15000. |
| 11 | CCV | 5.064 | 5.055 | 5.207 | 5.212 | 5.286 | 5.102 |
| 12 | CCB | .0130 | -.0001 | .0061 | -.0088 | .0038 | .0019 |
| 13 | S95T002175_L | 1165. | 389.8 | 6.450 | 141200. | 129.2 | 8133. |
| 14 | S95T002175_ | 1139. | 374.9 | 4.429 | 138800. | 115.3 | 7811. |
| 15 | S95T002175_D | 1186. | 400.5 | -1.256 | 147400. | 122.8 | 8341. |
| 16 | ICSA | 249.3 | -.0066 | -.0084 | 202.2 | .0051 | -.0056 |
| 17 | ICSAB | 250.3 | Q-.0063 | -.0047 | 201.1 | .0044 | Q-.0166 |
| 18 | ICSAB | 249.7 | .4525 | -.0118 | 200.0 | .0128 | .9196 |
| 19 | CCV_1 | 5.044 | 5.045 | 5.197 | 5.189 | 5.321 | 5.113 |
| 20 | CCB_1 | .0070 | .0001 | .0039 | -.0092 | .0019 | .0009 |

| # | Sample Name | P | Pb | S | Sb | Se | Si |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 5.058 | 5.116 | 4.941 | 4.822 | 4.920 | 4.868 |
| 2 | ICB | -.0091 | .0163 | -.0078 | -.0058 | .0184 | .0081 |
| 3 | ICSA | -.0054 | .0588 | -.0148 | -.0122 | -.0105 | .0086 |
| 4 | ICSAB | -.0124 | 1.020 | .0476 | -.0009 | -.0045 | .0229 |
| 5 | PREPSTDTJA | 4.946 | 4.787 | 4.644 | 4.565 | 4.774 | 13.08 |
| 6 | PREPBLKTJA | -.0137 | .0244 | .0482 | .0002 | .0026 | .1040 |
| 7 | S95T002174_L | 13090. | 2000. | 1564. | .4413 | 237.0 | 2713. |
| 8 | S95T002174_ | 12950. | 1856. | 1702. | 25.58 | 16.53 | 2525. |
| 9 | S95T002174_D | 15830. | 1732. | 2089. | 25.41 | -.1215 | 2547. |
| 10 | S95T002174_S | 15700. | 4000. | 3799. | 2148. | 2221. | 5137. |
| 11 | CCV | 5.212 | 5.182 | 5.023 | 4.932 | 5.018 | 4.954 |

WHC-CD-WM-DP-145, REV. 1

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| # | Sample Name | P | Pb | S | Sb | Se | Si |
|---|---|---|---|---|---|---|---|
| 12 | CCB | -.0139 | .0076 | .0069 | -.0072 | -.0154 | .0040 |
| 13 | S95T002175_L | 20280. | 2949. | 949.5 | -15.66 | 29.08 | 1895. |
| 14 | S95T002175_ | 19520. | 2754. | 907.2 | 6.644 | -10.56 | 1859. |
| 15 | S95T002175_D | 20740. | 2904. | 946.9 | -22.11 | 15.94 | 1967. |
| 16 | ICSA | -.0007 | .0546 | -.0416 | .0060 | -.0218 | .0044 |
| 17 | ICSAB | .0254 | Q.0477 | -.0110 | .0083 | -.0138 | .0075 |
| 18 | ICSAB | .0049 | 1.046 | .0577 | .0120 | -.0080 | .0195 |
| 19 | CCV_1 | 5.205 | 5.160 | 5.034 | 4.923 | 5.076 | 4.942 |
| 20 | CCB_1 | -.0029 | .0143 | .0032 | -.0019 | .0000 | .0037 |

| # | Sample Name | Sm | Sr | Th | Ti | Tl | U |
|---|---|---|---|---|---|---|---|
| 1 | ICV | 4.936 | 4.969 | .0387 | 4.914 | 4.854 | 9.573 |
| 2 | ICB | .0014 | .0001 | .0058 | .0006 | .0240 | .0117 |
| 3 | ICSA | -.0056 | .0017 | -.0154 | .0021 | .0808 | .0700 |
| 4 | ICSAB | -.0067 | -.0041 | -.0074 | .0030 | .0442 | .0320 |
| 5 | PREPSTDTJA | 4.818 | 4.866 | .0357 | 4.796 | 4.683 | 9.484 |
| 6 | PREPBLKTJA | -.0112 | -.0000 | .0075 | .0039 | .0028 | -.0394 |
| 7 | S95T002174_L | 29.07 | 39910. | 101.1 | 57.31 | 255.7 | 48700. |
| 8 | S95T002174_ | 3.574 | 39440. | 92.69 | 48.26 | 25.45 | 47430. |
| 9 | S95T002174_D | -9.183 | 39990. | 98.60 | 44.23 | 49.31 | 49840. |
| 10 | S95T002174_S | 2227. | 43450. | 91.45 | 2265. | 2194. | 54020. |
| 11 | CCV | 5.086 | 5.139 | .0357 | 5.049 | 4.984 | 9.886 |
| 12 | CCB | -.0070 | .0000 | .0020 | .0012 | .0072 | -.0285 |
| 13 | S95T002175_L | -76.83 | 9759. | 109.7 | 52.54 | -78.51 | 51410. |
| 14 | S95T002175_ | -6.754 | 9543. | 88.71 | 46.14 | 18.37 | 50340. |
| 15 | S95T002175_D | 3.254 | 10100. | 99.82 | 48.60 | 57.56 | 53300. |
| 16 | ICSA | -.0159 | .0017 | -.0186 | .0017 | .0548 | .0389 |
| 17 | ICSAB | -.0139 | .0017 | -.0135 | .0017 | .0538 | .0151 |
| 18 | ICSAB | -.0168 | -.0044 | -.0120 | .0022 | .0383 | -.0153 |
| 19 | CCV_1 | 5.136 | 5.190 | .0346 | 5.069 | 4.956 | 9.944 |
| 20 | CCB_1 | -.0083 | .0000 | .0069 | .0006 | .0244 | -.0245 |

| # | Sample Name | V | Y | Zn | Zr |
|---|---|---|---|---|---|
| 1 | ICV | 5.022 | .0098 | 5.091 | 4.989 |
| 2 | ICB | .0001 | -.0001 | .0013 | -.0005 |
| 3 | ICSA | -.0001 | .0077 | .0041 | -.0026 |
| 4 | ICSAB | .4668 | .0190 | .9739 | -.0018 |
| 5 | PREPSTDTJA | 4.799 | .0073 | 4.692 | 4.837 |
| 6 | PREPBLKTJA | -.0020 | -.0008 | .0072 | -.0006 |
| 7 | S95T002174_L | 19.60 | 11.87 | 258.1 | 26.11 |
| 8 | S95T002174_ | 13.84 | 11.11 | 245.9 | 31.16 |
| 9 | S95T002174_D | 13.51 | 10.32 | 225.6 | 25.74 |
| 10 | S95T002174_S | 2235. | 13.84 | 2445. | 2253. |
| 11 | CCV | 5.122 | .0093 | 5.148 | 5.108 |
| 12 | CCB | -.0020 | -.0005 | .0006 | -.0027 |
| 13 | S95T002175_L | -4.408 | 13.20 | 248.0 | -15.62 |
| 14 | S95T002175_ | 6.747 | 16.33 | 225.3 | .7111 |
| 15 | S95T002175_D | 9.514 | 17.95 | 234.6 | 3.700 |
| 16 | ICSA | -.0023 | .0074 | .0045 | -.0033 |
| 17 | ICSAB | Q-.0019 | .0074 | Q.0035 | -.0038 |

WHC-SD-WM-DP-145, REV. 1

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| # | Sample Name | V | Y | Zn | Zr |
|---|---|---|---|---|---|
| 18 | ICSAB | .4744 | .0188 | .9860 | -.0033 |
| 19 | CCV_1 | 5.131 | .0092 | 5.117 | 5.129 |
| 20 | CCB_1 | -.0014 | -.0005 | .0013 | -.0005 |

WHC-SD-WM-DP-145, REV. 1

SP 10/30/95

| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2881 | 1 | | | ICV | AG | | | | 5.0366 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 2 | 2881 | 1 | | | ICV | AL | | | | 4.8749 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 3 | 2881 | 1 | | | ICV | AS | | | | 5.1075 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 4 | 2881 | 1 | | | ICV | B | | | | 5.0042 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 5 | 2881 | 1 | | | ICV | BA | | | | 5.0350 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 6 | 2881 | 1 | | | ICV | BE | | | | 5.1437 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.005 | @ICP-QC |
| 7 | 2881 | 1 | | | ICV | BI | | | | 5.0861 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 8 | 2881 | 1 | | | ICV | CA | | | | 5.2005 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 9 | 2881 | 1 | | | ICV | CD | | | | 5.0757 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 10 | 2881 | 1 | | | ICV | CE | | | | 5.1549 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 11 | 2881 | 1 | | | ICV | CO | | | | 5.0921 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.02 | @ICP-QC |
| 12 | 2881 | 1 | | | ICV | CR | | | | 5.1402 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 13 | 2881 | 1 | | | ICV | CU | | | | 5.1158 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 14 | 2881 | 1 | | | ICV | EU | | | | 0.0085 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 15 | 2881 | 1 | | | ICV | FE | | | | 5.1031 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 16 | 2881 | 1 | | | ICV | K | | | | 5.0144 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.3 | @ICP-QC |
| 17 | 2881 | 1 | | | ICV | LA | | | | 5.0857 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 18 | 2881 | 1 | | | ICV | LI | | | | 5.0347 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 19 | 2881 | 1 | | | ICV | MG | | | | 4.9489 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 20 | 2881 | 1 | | | ICV | MN | | | | 4.9839 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 21 | 2881 | 1 | | | ICV | MO | | | | 5.1163 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 22 | 2881 | 1 | | | ICV | NA | | | | 5.0270 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 23 | 2881 | 1 | | | ICV | ND | | | | 5.1100 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 24 | 2881 | 1 | | | ICV | NI | | | | 5.0574 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.02 | @ICP-QC |
| 25 | 2881 | 1 | | | ICV | P | | | | 5.0575 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.2 | @ICP-QC |
| 26 | 2881 | 1 | | | ICV | PB | | | | 5.1181 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 27 | 2881 | 1 | | | ICV | S | | | | 4.9412 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 28 | 2881 | 1 | | | ICV | SB | | | | 4.8215 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.2 | @ICP-QC |
| 29 | 2881 | 1 | | | ICV | SE | | | | 4.8200 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 30 | 2881 | 1 | | | ICV | SI | | | | 4.8882 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 31 | 2881 | 1 | | | ICV | SM | | | | 4.9380 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.1 | @ICP-QC |
| 32 | 2881 | 1 | | | ICV | SR | | | | 4.9686 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 33 | 2881 | 1 | | | ICV | TH | | | | 0.0367 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0 | @ICP-QC |
| 34 | 2881 | 1 | | | ICV | TI | | | | 4.9139 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 35 | 2881 | 1 | | | ICV | TL | | | | 4.8536 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.2 | @ICP-QC |
| 36 | 2881 | 1 | | | ICV | U | | | | 9.5727 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.4 | @ICP-QC |
| 37 | 2881 | 1 | | | ICV | V | | | | 5.0216 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.05 | @ICP-QC |
| 38 | 2881 | 1 | | | ICV | Y | | | | 0.0008 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 39 | 2881 | 1 | | | ICV | ZN | | | | 5.0910 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 40 | 2881 | 1 | | | ICV | ZR | | | | 4.9893 | | 1.0000 | 10/26/95 | 13:15 | bjg | 0.01 | @ICP-QC |
| 41 | 2881 | 2 | | | ICB | AG | | | | 0.0019 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 42 | 2881 | 2 | | | ICB | AL | | | | 0.0071 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 43 | 2881 | 2 | | | ICB | AS | | | | 0.0071 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 44 | 2881 | 2 | | | ICB | B | | | | 0.0064 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 45 | 2881 | 2 | | | ICB | BA | | | | 0.0002 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 46 | 2881 | 2 | | | ICB | BE | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.005 | @ICP-QC |
| 47 | 2881 | 2 | | | ICB | BI | | | | -0.0078 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 48 | 2881 | 2 | | | ICB | CA | | | | 0.0043 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 49 | 2881 | 2 | | | ICB | CD | | | | 0.0009 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 50 | 2881 | 2 | | | ICB | CE | | | | 0.0135 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 51 | 2881 | 2 | | | ICB | CO | | | | 0.0018 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.02 | @ICP-QC |
| 52 | 2881 | 2 | | | ICB | CR | | | | 0.0006 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 53 | 2881 | 2 | | | ICB | CU | | | | -0.0000 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 54 | 2881 | 2 | | | ICB | EU | | | | 0.0003 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 55 | 2881 | 2 | | | ICB | FE | | | | 0.0017 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 56 | 2881 | 2 | | | ICB | K | | | | 0.2182 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.3 | @ICP-QC |
| 57 | 2881 | 2 | | | ICB | LA | | | | 0.0023 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 58 | 2881 | 2 | | | ICB | LI | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 59 | 2881 | 2 | | | ICB | MG | | | | 0.0044 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 60 | 2881 | 2 | | | ICB | MN | | | | 0.0003 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 61 | 2881 | 2 | | | ICB | MO | | | | 0.0054 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 62 | 2881 | 2 | | | ICB | NA | | | | -0.0007 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 63 | 2881 | 2 | | | ICB | ND | | | | 0.0016 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 64 | 2881 | 2 | | | ICB | NI | | | | 0.0050 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.02 | @ICP-QC |
| 65 | 2881 | 2 | | | ICB | P | | | | -0.0091 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.2 | @ICP-QC |
| 66 | 2881 | 2 | | | ICB | PB | | | | 0.0163 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 67 | 2881 | 2 | | | ICB | S | | | | -0.0078 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 68 | 2881 | 2 | | | ICB | SB | | | | -0.0058 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.2 | @ICP-QC |
| 69 | 2881 | 2 | | | ICB | SE | | | | 0.0184 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 70 | 2881 | 2 | | | ICB | SI | | | | 0.0061 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 71 | 2881 | 2 | | | ICB | SM | | | | 0.0014 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.1 | @ICP-QC |
| 72 | 2881 | 2 | | | ICB | SR | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 73 | 2881 | 2 | | | ICB | TH | | | | 0.0058 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0 | @ICP-QC |
| 74 | 2881 | 2 | | | ICB | TI | | | | 0.0006 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 75 | 2881 | 2 | | | ICB | TL | | | | 0.0240 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.2 | @ICP-QC |
| 76 | 2881 | 2 | | | ICB | U | | | | 0.0117 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.4 | @ICP-QC |
| 77 | 2881 | 2 | | | ICB | V | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.05 | @ICP-QC |
| 78 | 2881 | 2 | | | ICB | Y | | | | -0.0001 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 79 | 2881 | 2 | | | ICB | ZN | | | | 0.0013 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 80 | 2881 | 2 | | | ICB | ZR | | | | -0.0005 | | 1.0000 | 10/26/95 | 13:18 | bjg | 0.01 | @ICP-QC |
| 81 | 2881 | 3 | | | ICSA | AG | | | | -0.0101 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 82 | 2881 | 3 | | | ICSA | AL | | | | 240.7863 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 83 | 2881 | 3 | | | ICSA | AS | | | | -0.0102 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 84 | 2881 | 3 | | | ICSA | B | | | | -0.0023 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 85 | 2881 | 3 | | | ICSA | BA | | | | 0.0019 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 86 | 2881 | 3 | | | ICSA | BE | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.005 | @ICP-QC |
| 87 | 2881 | 3 | | | ICSA | BI | | | | 0.0058 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 88 | 2881 | 3 | | | ICSA | CA | | | | 245.0480 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 89 | 2881 | 3 | | | ICSA | CD | | | | 0.0032 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 90 | 2881 | 3 | | | ICSA | CE | | | | 0.0183 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 91 | 2881 | 3 | | | ICSA | CO | | | | 0.0023 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.02 | @ICP-QC |
| 92 | 2881 | 3 | | | ICSA | CR | | | | 0.0074 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 93 | 2881 | 3 | | | ICSA | CU | | | | -0.0086 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 94 | 2881 | 3 | | | ICSA | EU | | | | -0.0063 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 95 | 2881 | 3 | | | ICSA | FE | | | | 91.4895 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 96 | 2881 | 3 | | | ICSA | K | | | | 0.5086 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.3 | @ICP-QC |
| 97 | 2881 | 3 | | | ICSA | LA | | | | -0.0026 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 98 | 2881 | 3 | | | ICSA | LI | | | | 0.0027 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 99 | 2881 | 3 | | | ICSA | MG | | | | 245.0117 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 100 | 2881 | 3 | | | ICSA | MN | | | | -0.0059 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 101 | 2881 | 3 | | | ICSA | MO | | | | -0.0057 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 102 | 2881 | 3 | | | ICSA | NA | | | | 196.4198 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 103 | 2881 | 3 | | | ICSA | ND | | | | 0.0044 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 104 | 2881 | 3 | | | ICSA | NI | | | | -0.0112 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.02 | @ICP-QC |
| 105 | 2881 | 3 | | | ICSA | P | | | | -0.0054 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.2 | @ICP-QC |
| 106 | 2881 | 3 | | | ICSA | PB | | | | 0.0588 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 107 | 2881 | 3 | | | ICSA | S | | | | -0.0148 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 108 | 2881 | 3 | | | ICSA | SB | | | | -0.0122 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.2 | @ICP-QC |
| 109 | 2881 | 3 | | | ICSA | SE | | | | -0.0105 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 110 | 2881 | 3 | | | ICSA | SI | | | | 0.0086 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 111 | 2881 | 3 | | | ICSA | SM | | | | -0.0056 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.1 | @ICP-QC |
| 112 | 2881 | 3 | | | ICSA | SR | | | | 0.0017 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 113 | 2881 | 3 | | | ICSA | TH | | | | -0.0154 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0 | @ICP-QC |
| 114 | 2881 | 3 | | | ICSA | TI | | | | 0.0021 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 115 | 2881 | 3 | | | ICSA | TL | | | | 0.0808 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.2 | @ICP-QC |
| 116 | 2881 | 3 | | | ICSA | U | | | | 0.0700 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.4 | @ICP-QC |
| 117 | 2881 | 3 | | | ICSA | V | | | | -0.0001 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.05 | @ICP-QC |
| 118 | 2881 | 3 | | | ICSA | Y | | | | 0.0077 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 119 | 2881 | 3 | | | ICSA | ZN | | | | 0.0041 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 120 | 2881 | 3 | | | ICSA | ZR | | | | -0.0026 | | 1.0000 | 10/26/95 | 13:21 | bjg | 0.01 | @ICP-QC |
| 121 | 2881 | 4 | | | ICSAB | AG | | | | 0.9545 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 122 | 2881 | 4 | | | ICSAB | AL | | | | 236.7460 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123 | 2881 | 4 | | | ICSAB | AS | | | | -0.0124 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 124 | 2881 | 4 | | | ICSAB | B | | | | -0.0057 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 125 | 2881 | 4 | | | ICSAB | BA | | | | 0.4742 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 126 | 2881 | 4 | | | ICSAB | BE | | | | 0.4762 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.005 | @ICP-QC |
| 127 | 2881 | 4 | | | ICSAB | BI | | | | -0.0025 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 128 | 2881 | 4 | | | ICSAB | CA | | | | 290.3220 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 129 | 2881 | 4 | | | ICSAB | CD | | | | 0.9440 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 130 | 2881 | 4 | | | ICSAB | CE | | | | 0.0112 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 131 | 2881 | 4 | | | ICSAB | CO | | | | 0.4706 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.02 | @ICP-QC |
| 132 | 2881 | 4 | | | ICSAB | CR | | | | 0.4603 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 133 | 2881 | 4 | | | ICSAB | CU | | | | 0.4827 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 134 | 2881 | 4 | | | ICSAB | EU | | | | -0.0122 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 135 | 2881 | 4 | | | ICSAB | FE | | | | 92.7513 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 136 | 2881 | 4 | | | ICSAB | K | | | | 0.3433 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.3 | @ICP-QC |
| 137 | 2881 | 4 | | | ICSAB | LA | | | | -0.0029 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 138 | 2881 | 4 | | | ICSAB | LI | | | | 0.9759 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 139 | 2881 | 4 | | | ICSAB | MG | | | | 244.7394 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 140 | 2881 | 4 | | | ICSAB | MN | | | | 0.4472 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 141 | 2881 | 4 | | | ICSAB | MO | | | | -0.0124 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 142 | 2881 | 4 | | | ICSAB | NA | | | | 194.5143 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 143 | 2881 | 4 | | | ICSAB | ND | | | | 0.0128 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 144 | 2881 | 4 | | | ICSAB | NI | | | | 0.9031 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.02 | @ICP-QC |
| 145 | 2881 | 4 | | | ICSAB | P | | | | -0.0124 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.2 | @ICP-QC |
| 146 | 2881 | 4 | | | ICSAB | PB | | | | 1.0201 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 147 | 2881 | 4 | | | ICSAB | S | | | | 0.0476 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 148 | 2881 | 4 | | | ICSAB | SB | | | | -0.0009 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.2 | @ICP-QC |
| 149 | 2881 | 4 | | | ICSAB | SE | | | | -0.0045 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 150 | 2881 | 4 | | | ICSAB | SI | | | | 0.0229 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 151 | 2881 | 4 | | | ICSAB | SM | | | | -0.0067 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.1 | @ICP-QC |
| 152 | 2881 | 4 | | | ICSAB | SR | | | | -0.0041 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 153 | 2881 | 4 | | | ICSAB | TH | | | | -0.0074 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0 | @ICP-QC |
| 154 | 2881 | 4 | | | ICSAB | TI | | | | 0.0030 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 155 | 2881 | 4 | | | ICSAB | TL | | | | 0.0442 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.2 | @ICP-QC |
| 156 | 2881 | 4 | | | ICSAB | U | | | | 0.0320 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.4 | @ICP-QC |
| 157 | 2881 | 4 | | | ICSAB | V | | | | 0.4668 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.05 | @ICP-QC |
| 158 | 2881 | 4 | | | ICSAB | Y | | | | 0.0190 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 159 | 2881 | 4 | | | ICSAB | ZN | | | | 0.9739 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 160 | 2881 | 4 | | | ICSAB | ZR | | | | -0.0016 | | 1.0000 | 10/26/95 | 13:24 | bjg | 0.01 | @ICP-QC |
| 161 | 2881 | 5 | | | PREPSTDTJA | AG-A-01 | | | | 0.9556 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 162 | 2881 | 5 | | | PREPSTDTJA | AL-A-01 | | | | 5.0053 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 163 | 2881 | 5 | | | PREPSTDTJA | AS-A-01 | | | | 4.8770 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 164 | 2881 | 5 | | | PREPSTDTJA | B-A-01 | | | | 5.7332 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 165 | 2881 | 5 | | | PREPSTDTJA | BA-A-01 | | | | 4.8995 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 166 | 2881 | 5 | | | PREPSTDTJA | BE-A-01 | | | | 5.2718 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.005 | @ICP-A01 |
| 167 | 2881 | 5 | | | PREPSTDTJA | BI-A-01 | | | | 4.7785 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 168 | 2881 | 5 | | | PREPSTDTJA | CA-A-01 | | | | 5.0562 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 169 | 2881 | 5 | | | PREPSTDTJA | CD-A-01 | | | | 4.7774 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 170 | 2881 | 5 | | | PREPSTDTJA | CE-A-01 | | | | 5.0387 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 171 | 2881 | 5 | | | PREPSTDTJA | CO-A-01 | | | | 4.9061 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.02 | @ICP-A01 |
| 172 | 2881 | 5 | | | PREPSTDTJA | CR-A-01 | | | | 4.8926 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 173 | 2881 | 5 | | | PREPSTDTJA | CU-A-01 | | | | 4.8594 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 174 | 2881 | 5 | | | PREPSTDTJA | EU-A-01 | | | | 0.0067 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 175 | 2881 | 5 | | | PREPSTDTJA | FE-A-01 | | | | 4.8457 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 176 | 2881 | 5 | | | PREPSTDTJA | K-A-01 | | | | 4.9334 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.3 | @ICP-A01 |
| 177 | 2881 | 5 | | | PREPSTDTJA | LA-A-01 | | | | 4.9600 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 178 | 2881 | 5 | | | PREPSTDTJA | LI-A-01 | | | | 4.8787 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 179 | 2881 | 5 | | | PREPSTDTJA | MG-A-01 | | | | 4.7212 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 180 | 2881 | 5 | | | PREPSTDTJA | MN-A-01 | | | | 4.7756 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 181 | 2881 | 5 | | | PREPSTDTJA | MO-A-01 | | | | 4.9319 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 182 | 2881 | 5 | | | PREPSTDTJA | NA-A-01 | | | | 5.9369 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 183 | 2881 | 5 | | | PREPSTDTJA | ND-A-01 | | | | 4.8482 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 184 | 2881 | 5 | | | PREPSTDTJA | NI-A-01 | | | | 4.8551 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.02 | @ICP-A01 |
| 185 | 2881 | 5 | | | PREPSTDTJA | P-A-01 | | | | 4.9456 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.2 | @ICP-A01 |
| 186 | 2881 | 5 | | | PREPSTDTJA | PB-A-01 | | | | 4.7869 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 187 | 2881 | 5 | | | PREPSTDTJA | S-A-01 | | | | 4.6435 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 188 | 2881 | 5 | | | PREPSTDTJA | SB-A-01 | | | | 4.5652 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.2 | @ICP-A01 |
| 189 | 2881 | 5 | | | PREPSTDTJA | SE-A-01 | | | | 4.7740 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 190 | 2881 | 5 | | | PREPSTDTJA | SI-A-01 | | | | 13.0755 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 191 | 2881 | 5 | | | PREPSTDTJA | SM-A-01 | | | | 4.8182 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.1 | @ICP-A01 |
| 192 | 2881 | 5 | | | PREPSTDTJA | SR-A-01 | | | | 4.8857 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 193 | 2881 | 5 | | | PREPSTDTJA | TH-A-01 | | | | 0.0357 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0 | @ICP-A01 |
| 194 | 2881 | 5 | | | PREPSTDTJA | TI-A-01 | | | | 4.7964 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 195 | 2881 | 5 | | | PREPSTDTJA | TL-A-01 | | | | 4.6830 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.2 | @ICP-A01 |
| 196 | 2881 | 5 | | | PREPSTDTJA | U-A-01 | | | | 9.4836 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.4 | @ICP-A01 |
| 197 | 2881 | 5 | | | PREPSTDTJA | V-A-01 | | | | 4.7994 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.05 | @ICP-A01 |
| 198 | 2881 | 5 | | | PREPSTDTJA | Y-A-01 | | | | 0.0073 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 199 | 2881 | 5 | | | PREPSTDTJA | ZN-A-01 | | | | 4.8921 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 200 | 2881 | 5 | | | PREPSTDTJA | ZR-A-01 | | | | 4.8369 | | 1.0000 | 10/26/95 | 13:28 | bjg | 0.01 | @ICP-A01 |
| 201 | 2881 | 6 | | | PREPBLKTJA | AG-A-01 | | | | 0.0021 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 202 | 2881 | 6 | | | PREPBLKTJA | AL-A-01 | | | | 0.0151 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 203 | 2881 | 6 | | | PREPBLKTJA | AS-A-01 | | | | 0.0063 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 204 | 2881 | 6 | | | PREPBLKTJA | B-A-01 | | | | 0.0272 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 205 | 2881 | 6 | | | PREPBLKTJA | BA-A-01 | | | | 0.0006 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 206 | 2881 | 6 | | | PREPBLKTJA | BE-A-01 | | | | 0.0001 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.005 | @ICP-A01 |
| 207 | 2881 | 6 | | | PREPBLKTJA | BI-A-01 | | | | 0.0072 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 208 | 2881 | 6 | | | PREPBLKTJA | CA-A-01 | | | | 0.1132 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 209 | 2881 | 6 | | | PREPBLKTJA | CD-A-01 | | | | 0.0013 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 210 | 2881 | 6 | | | PREPBLKTJA | CE-A-01 | | | | 0.0115 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 211 | 2881 | 6 | | | PREPBLKTJA | CO-A-01 | | | | 0.0034 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.02 | @ICP-A01 |
| 212 | 2881 | 6 | | | PREPBLKTJA | CR-A-01 | | | | 0.0016 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 213 | 2881 | 6 | | | PREPBLKTJA | CU-A-01 | | | | 0.0026 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 214 | 2881 | 6 | | | PREPBLKTJA | EU-A-01 | | | | -0.0010 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 215 | 2881 | 6 | | | PREPBLKTJA | FE-A-01 | | | | 0.0169 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 216 | 2881 | 6 | | | PREPBLKTJA | K-A-01 | | | | 0.4016 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.3 | @ICP-A01 |
| 217 | 2881 | 6 | | | PREPBLKTJA | LA-A-01 | | | | 0.0021 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 218 | 2881 | 6 | | | PREPBLKTJA | LI-A-01 | | | | -0.0009 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 219 | 2881 | 6 | | | PREPBLKTJA | MG-A-01 | | | | 0.0220 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 220 | 2881 | 6 | | | PREPBLKTJA | MN-A-01 | | | | 0.0003 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 221 | 2881 | 6 | | | PREPBLKTJA | MO-A-01 | | | | 0.0053 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 222 | 2881 | 6 | | | PREPBLKTJA | NA-A-01 | | | | 0.2922 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 223 | 2881 | 6 | | | PREPBLKTJA | ND-A-01 | | | | 0.0057 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 224 | 2881 | 6 | | | PREPBLKTJA | NI-A-01 | | | | -0.0040 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.02 | @ICP-A01 |
| 225 | 2881 | 6 | | | PREPBLKTJA | P-A-01 | | | | -0.0137 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.2 | @ICP-A01 |
| 226 | 2881 | 6 | | | PREPBLKTJA | PB-A-01 | | | | 0.0244 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 227 | 2881 | 6 | | | PREPBLKTJA | S-A-01 | | | | 0.0482 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 228 | 2881 | 6 | | | PREPBLKTJA | SB-A-01 | | | | 0.0002 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.2 | @ICP-A01 |
| 229 | 2881 | 6 | | | PREPBLKTJA | SE-A-01 | | | | 0.0026 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 230 | 2881 | 6 | | | PREPBLKTJA | SI-A-01 | | | | 0.1040 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 231 | 2881 | 6 | | | PREPBLKTJA | SM-A-01 | | | | -0.0112 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.1 | @ICP-A01 |
| 232 | 2881 | 6 | | | PREPBLKTJA | SR-A-01 | | | | -0.0000 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 233 | 2881 | 6 | | | PREPBLKTJA | TH-A-01 | | | | 0.0075 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0 | @ICP-A01 |
| 234 | 2881 | 6 | | | PREPBLKTJA | TI-A-01 | | | | 0.0039 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 235 | 2881 | 6 | | | PREPBLKTJA | TL-A-01 | | | | 0.0028 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.2 | @ICP-A01 |
| 236 | 2881 | 6 | | | PREPBLKTJA | U-A-01 | | | | -0.0394 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.4 | @ICP-A01 |
| 237 | 2881 | 6 | | | PREPBLKTJA | V-A-01 | | | | -0.0020 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.05 | @ICP-A01 |
| 238 | 2881 | 6 | | | PREPBLKTJA | Y-A-01 | | | | -0.0006 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 239 | 2881 | 6 | | | PREPBLKTJA | ZN-A-01 | | | | 0.0072 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 240 | 2881 | 6 | | | PREPBLKTJA | ZR-A-01 | | | | -0.0008 | | 1.0000 | 10/26/95 | 13:31 | bjg | 0.01 | @ICP-A01 |
| 241 | 2881 | 7 | S95T002174 | | | AG-A-01 | | | < | 23.7400 | | 2374.0000 | 10/26/95 | 13:37 | bjg | 0.01 | @ICP-A01 |
| 242 | 2881 | 7 | S95T002174 | | | AL-A-01 | | | | 24211.2051 | | 2374.0000 | 10/26/95 | 13:37 | bjg | 0.05 | @ICP-A01 |
| 243 | 2881 | 7 | S95T002174 | | | AS-A-01 | | | < | 118.7000 | | 2374.0000 | 10/26/95 | 13:37 | bjg | 0.05 | @ICP-A01 |
| 244 | 2881 | 7 | S95T002174 | | | B-A-01 | | | < | 118.7000 | | 2374.0000 | 10/26/95 | 13:37 | bjg | 0.05 | @ICP-A01 |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 2881 | 7 | S95T002174 | | | BA-A-01 | | | | 506.4565 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.05 | @ICP-A01 |
| 346 | 2881 | 7 | S95T002174 | | | BE-A-01 | | | < | 11.8700 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.005 | @ICP-A01 |
| 347 | 2881 | 7 | S95T002174 | | | BI-A-01 | | | | 2168.9280 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 348 | 2881 | 7 | S95T002174 | | | CA-A-01 | | | | 6356.5306 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 349 | 2881 | 7 | S95T002174 | | | CD-A-01 | | | < | 23.7400 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
| 350 | 2881 | 7 | S95T002174 | | | CE-A-01 | | | < | 237.4000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 351 | 2881 | 7 | S95T002174 | | | CO-A-01 | | | < | 47.4800 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.02 | @ICP-A01 |
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| 353 | 2881 | 7 | S95T002174 | | | CU-A-01 | | | < | 23.7400 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
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| 355 | 2881 | 7 | S95T002174 | | | K-A-01 | | | | 1941.2593 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.3 | @ICP-A01 |
| 356 | 2881 | 7 | S95T002174 | | | LA-A-01 | | | < | 118.7000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.05 | @ICP-A01 |
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| 358 | 2881 | 7 | S95T002174 | | | MG-A-01 | | | | 1296.8436 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 359 | 2881 | 7 | S95T002174 | | | MN-A-01 | | | | 409.2478 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
| 360 | 2881 | 7 | S95T002174 | | | MO-A-01 | | | < | 118.7000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.05 | @ICP-A01 |
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| 362 | 2881 | 7 | S95T002174 | | | ND-A-01 | | | < | 237.4000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
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| 365 | 2881 | 7 | S95T002174 | | | PB-A-01 | | | | 1856.0732 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 366 | 2881 | 7 | S95T002174 | | | S-A-01 | | | | 1701.9337 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.05 | @ICP-A01 |
| 367 | 2881 | 7 | S95T002174 | | | SB-A-01 | | | < | 474.8000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.2 | @ICP-A01 |
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| 369 | 2881 | 7 | S95T002174 | | | SI-A-01 | | | | 2524.5557 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.05 | @ICP-A01 |
| 370 | 2881 | 7 | S95T002174 | | | SM-A-01 | | | < | 237.4000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.1 | @ICP-A01 |
| 371 | 2881 | 7 | S95T002174 | | | SR-A-01 | | | | 39437.2852 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
| 372 | 2881 | 7 | S95T002174 | | | TI-A-01 | | | | 48.2560 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
| 373 | 2881 | 7 | S95T002174 | | | TL-A-01 | | | < | 474.8000 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.2 | @ICP-A01 |
| 374 | 2881 | 7 | S95T002174 | | | U-A-01 | | | | 47431.2109 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.4 | @ICP-A01 |
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| 377 | 2881 | 7 | S95T002174 | | | ZR-A-01 | | | | 31.1614 | | 2374.0000 | 10/26/95 | 13:37 | blg | 0.01 | @ICP-A01 |
| 378 | 2881 | 8 | S95T002174 | | DUP | AG-A-01 | | <23.7400 | | <25.9300 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 379 | 2881 | 8 | S95T002174 | | DUP | AL-A-01 | | 24211.2051 | | 24253.9551 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 380 | 2881 | 8 | S95T002174 | | DUP | AS-A-01 | | <118.7000 | | <129.6500 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 381 | 2881 | 8 | S95T002174 | | DUP | B-A-01 | | <118.7000 | | <129.6500 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 382 | 2881 | 8 | S95T002174 | | DUP | BA-A-01 | | 506.4565 | | 506.0526 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 383 | 2881 | 8 | S95T002174 | | DUP | BE-A-01 | | <11.8700 | | <12.9650 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.005 | @ICP-A01 |
| 384 | 2881 | 8 | S95T002174 | | DUP | BI-A-01 | | 2168.9280 | | 1799.4791 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 385 | 2881 | 8 | S95T002174 | | DUP | CA-A-01 | | 6356.5306 | | 6052.5483 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 386 | 2881 | 8 | S95T002174 | | DUP | CD-A-01 | | <23.7400 | | <25.9300 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 387 | 2881 | 8 | S95T002174 | | DUP | CE-A-01 | | <237.4000 | | <259.3000 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 388 | 2881 | 8 | S95T002174 | | DUP | CO-A-01 | | <47.4800 | | <51.8600 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.02 | @ICP-A01 |
| 389 | 2881 | 8 | S95T002174 | | DUP | CR-A-01 | | 1197.1251 | | 1097.2801 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 390 | 2881 | 8 | S95T002174 | | DUP | CU-A-01 | | <23.7400 | | <25.9300 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 391 | 2881 | 8 | S95T002174 | | DUP | FE-A-01 | | 30685.5703 | | 28476.5938 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 392 | 2881 | 8 | S95T002174 | | DUP | K-A-01 | | 1941.2593 | | 2134.5063 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.3 | @ICP-A01 |
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| 396 | 2881 | 8 | S95T002174 | | DUP | MN-A-01 | | 409.2478 | | 353.1776 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
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| 399 | 2881 | 8 | S95T002174 | | DUP | ND-A-01 | | <237.4000 | | <259.3000 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 400 | 2881 | 8 | S95T002174 | | DUP | NI-A-01 | | 12746.6826 | | 12942.2197 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.02 | @ICP-A01 |
| 401 | 2881 | 8 | S95T002174 | | DUP | P-A-01 | | 12947.0039 | | 15827.0664 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.2 | @ICP-A01 |
| 402 | 2881 | 8 | S95T002174 | | DUP | PB-A-01 | | 1856.0732 | | 1731.6727 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 403 | 2881 | 8 | S95T002174 | | DUP | S-A-01 | | 1701.9337 | | 2088.7102 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 404 | 2881 | 8 | S95T002174 | | DUP | SB-A-01 | | <474.8000 | | <518.6000 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.2 | @ICP-A01 |
| 405 | 2881 | 8 | S95T002174 | | DUP | SE-A-01 | | <237.4000 | | <259.3000 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 406 | 2881 | 8 | S95T002174 | | DUP | SI-A-01 | | 2524.5557 | | 2546.6965 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.05 | @ICP-A01 |
| 407 | 2881 | 8 | S95T002174 | | DUP | SM-A-01 | | <237.4000 | | <259.3000 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.1 | @ICP-A01 |
| 408 | 2881 | 8 | S95T002174 | | DUP | SR-A-01 | | 39437.2852 | | 39969.8125 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 409 | 2881 | 8 | S95T002174 | | DUP | TI-A-01 | | 48.2560 | | 44.2280 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
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| 413 | 2881 | 8 | S95T002174 | | DUP | ZN-A-01 | | 245.8945 | | 225.5879 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 414 | 2881 | 8 | S95T002174 | | DUP | ZR-A-01 | | 31.1614 | | <25.9300 | | 2593.0000 | 10/26/95 | 13:42 | blg | 0.01 | @ICP-A01 |
| 415 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | AG-A-01 | | | 464.8 | 454.6870 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.01 | @ICP-A01 |
| 416 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | AL-A-01 | | n/a | | n/a | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.05 | @ICP-A01 |
| 417 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | AS-A-01 | | | 2324 | 2367.1028 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.05 | @ICP-A01 |
| 418 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | B-A-01 | | | 2324 | 2310.6662 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.05 | @ICP-A01 |
| 419 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | BA-A-01 | | | 2324 | 2258.3829 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.05 | @ICP-A01 |
| 420 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | BE-A-01 | | | 2324 | 2316.5913 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.005 | @ICP-A01 |
| 421 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | BI-A-01 | | | 2324 | 1793.4399 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.1 | @ICP-A01 |
| 422 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | CA-A-01 | | | 2324 | 2601.6479 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.1 | @ICP-A01 |
| 423 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | CD-A-01 | | | 2324 | 2230.3809 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.01 | @ICP-A01 |
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| 428 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | FE-A-01 | | n/a | | n/a | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.05 | @ICP-A01 |
| 429 | 2881 | 9 | S95T002174_S | | SPK-PREDIG | K-A-01 | | | 2324 | 2448.5586 | | 2324.0000 | 10/26/95 | 13:45 | blg | 0.3 | @ICP-A01 |
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| 453 | 2881 | 10 | | | CCV | AL | | | | 5.0019 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 454 | 2881 | 10 | | | CCV | AS | | | | 5.2573 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 455 | 2881 | 10 | | | CCV | B | | | | 5.1641 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 456 | 2881 | 10 | | | CCV | BA | | | | 5.2129 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 457 | 2881 | 10 | | | CCV | BE | | | | 5.2945 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.005 | @ICP-QC |
| 458 | 2881 | 10 | | | CCV | BI | | | | 5.2462 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.1 | @ICP-QC |
| 459 | 2881 | 10 | | | CCV | CA | | | | 5.3026 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.1 | @ICP-QC |
| 460 | 2881 | 10 | | | CCV | CD | | | | 5.1501 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.01 | @ICP-QC |
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| 462 | 2881 | 10 | | | CCV | CO | | | | 5.1683 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.02 | @ICP-QC |
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| 464 | 2881 | 10 | | | CCV | CU | | | | 5.3064 | | 1.0000 | 10/26/95 | 13:50 | blg | 0.01 | @ICP-QC |
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WHC-SD-WM-DP-145, REV. 1

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 367 | 2881 | 10 | | | CCV | K | | | | 5.1650 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.3 | @ICP-QC |
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| 370 | 2881 | 10 | | | CCV | MG | | | | 5.0841 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.1 | @ICP-QC |
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| 372 | 2881 | 10 | | | CCV | MO | | | | 5.2075 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.06 | @ICP-QC |
| 373 | 2881 | 10 | | | CCV | NA | | | | 5.2121 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.1 | @ICP-QC |
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| 375 | 2881 | 10 | | | CCV | NI | | | | 5.1015 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.02 | @ICP-QC |
| 376 | 2881 | 10 | | | CCV | P | | | | 5.2115 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.2 | @ICP-QC |
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| 378 | 2881 | 10 | | | CCV | S | | | | 5.0229 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.05 | @ICP-QC |
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| 381 | 2881 | 10 | | | CCV | SI | | | | 4.9536 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 382 | 2881 | 10 | | | CCV | SM | | | | 5.0863 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.1 | @ICP-QC |
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| 386 | 2881 | 10 | | | CCV | TL | | | | 4.9844 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.2 | @ICP-QC |
| 387 | 2881 | 10 | | | CCV | U | | | | 9.5857 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.4 | @ICP-QC |
| 388 | 2881 | 10 | | | CCV | V | | | | 5.1224 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.05 | @ICP-QC |
| 389 | 2881 | 10 | | | CCV | Y | | | | 0.0083 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.01 | @ICP-QC |
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| 391 | 2881 | 10 | | | CCV | ZR | | | | 5.1085 | | 1.0000 | 10/28/95 | 13:50 | blg | 0.01 | @ICP-QC |
| 392 | 2881 | 11 | | | CCB | AG | | | | 0.0022 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.01 | @ICP-QC |
| 393 | 2881 | 11 | | | CCB | AL | | | | 0.0110 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 394 | 2881 | 11 | | | CCB | AS | | | | 0.0150 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 395 | 2881 | 11 | | | CCB | B | | | | 0.0055 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 396 | 2881 | 11 | | | CCB | BA | | | | 0.0001 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 397 | 2881 | 11 | | | CCB | BE | | | | 0.0001 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.005 | @ICP-QC |
| 398 | 2881 | 11 | | | CCB | BI | | | | -0.0040 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
| 399 | 2881 | 11 | | | CCB | CA | | | | 0.0009 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
| 400 | 2881 | 11 | | | CCB | CD | | | | 0.0018 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.01 | @ICP-QC |
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| 402 | 2881 | 11 | | | CCB | CO | | | | 0.0002 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.02 | @ICP-QC |
| 403 | 2881 | 11 | | | CCB | CR | | | | 0.0008 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.01 | @ICP-QC |
| 404 | 2881 | 11 | | | CCB | CU | | | | 0.0006 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.01 | @ICP-QC |
| 405 | 2881 | 11 | | | CCB | EU | | | | -0.0007 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
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| 412 | 2881 | 11 | | | CCB | MO | | | | 0.0061 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 413 | 2881 | 11 | | | CCB | NA | | | | -0.0068 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
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| 415 | 2881 | 11 | | | CCB | NI | | | | 0.0019 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.02 | @ICP-QC |
| 416 | 2881 | 11 | | | CCB | P | | | | -0.0139 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.2 | @ICP-QC |
| 417 | 2881 | 11 | | | CCB | PB | | | | 0.0076 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
| 418 | 2881 | 11 | | | CCB | S | | | | 0.0069 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
| 419 | 2881 | 11 | | | CCB | SB | | | | -0.0072 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.2 | @ICP-QC |
| 420 | 2881 | 11 | | | CCB | SE | | | | -0.0154 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
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| 422 | 2881 | 11 | | | CCB | SM | | | | -0.0070 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.1 | @ICP-QC |
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| 427 | 2881 | 11 | | | CCB | U | | | | -0.0285 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.4 | @ICP-QC |
| 428 | 2881 | 11 | | | CCB | V | | | | -0.0020 | | 1.0000 | 10/28/95 | 13:53 | blg | 0.05 | @ICP-QC |
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| 436 | 2881 | 12 | S95T002175 | | | BA-A-01 | | | | 248.9955 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.05 | @ICP-A01 |
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| 439 | 2881 | 12 | S95T002175 | | | CA-A-01 | | | | 16391.8320 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.1 | @ICP-A01 |
| 440 | 2881 | 12 | S95T002175 | | | CD-A-01 | | | < | 14.9000 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.01 | @ICP-A01 |
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| 445 | 2881 | 12 | S95T002175 | | | FE-A-01 | | | | 37581.5896 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.05 | @ICP-A01 |
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| 450 | 2881 | 12 | S95T002175 | | | MN-A-01 | | | | 374.8858 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.01 | @ICP-A01 |
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| 453 | 2881 | 12 | S95T002175 | | | ND-A-01 | | | < | 149.0000 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.1 | @ICP-A01 |
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| 457 | 2881 | 12 | S95T002175 | | | S-A-01 | | | | 907.1808 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.05 | @ICP-A01 |
| 458 | 2881 | 12 | S95T002175 | | | SB-A-01 | | | < | 298.0000 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.2 | @ICP-A01 |
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| 465 | 2881 | 12 | S95T002175 | | | U-A-01 | | | | 50338.0977 | | 1480.0000 | 10/28/95 | 13:59 | blg | 0.4 | @ICP-A01 |
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| 473 | 2881 | 13 | S95T002175 | | DUP | BA-A-01 | | 248.9955 | | 283.2888 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.05 | @ICP-A01 |
| 474 | 2881 | 13 | S95T002175 | | DUP | BE-A-01 | | <7.4500 | | <7.4200 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.005 | @ICP-A01 |
| 475 | 2881 | 13 | S95T002175 | | DUP | BI-A-01 | | 1715.1598 | | 1770.5795 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.1 | @ICP-A01 |
| 476 | 2881 | 13 | S95T002175 | | DUP | CA-A-01 | | 16391.8320 | | 17388.3086 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.1 | @ICP-A01 |
| 477 | 2881 | 13 | S95T002175 | | DUP | CD-A-01 | | <14.9000 | | <14.8400 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.01 | @ICP-A01 |
| 478 | 2881 | 13 | S95T002175 | | DUP | CE-A-01 | | <149.0000 | | <148.4000 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.1 | @ICP-A01 |
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| 481 | 2881 | 13 | S95T002175 | | DUP | CU-A-01 | | 18.3480 | | 20.3021 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.01 | @ICP-A01 |
| 482 | 2881 | 13 | S95T002175 | | DUP | FE-A-01 | | 37581.5896 | | 39952.7500 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.05 | @ICP-A01 |
| 483 | 2881 | 13 | S95T002175 | | DUP | K-A-01 | | 1887.8729 | | 2108.6462 | | 1484.0000 | 10/28/95 | 14:03 | blg | 0.3 | @ICP-A01 |
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WHC-CP-YM-DP-145, REV. 1

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ICP MACRO

| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 493 | 2881 | 13 | 895T002175 | | DUP | PB-A-01 | | 2753.8071 | | 2904.1563 | | 1484.0000 | 10/26/95 | 14:03 | bjg | 0.1 | @ICP-A01 |
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| 503 | 2881 | 13 | 895T002175 | | DUP | V-A-01 | | <74.5000 | | <74.2000 | | 1484.0000 | 10/26/95 | 14:03 | bjg | 0.05 | @ICP-A01 |
| 504 | 2881 | 13 | 895T002175 | | DUP | ZN-A-01 | | 225.3233 | | 234.5519 | | 1484.0000 | 10/26/95 | 14:03 | bjg | 0.01 | @ICP-A01 |
| 505 | 2881 | 13 | 895T002175 | | DUP | ZR-A-01 | | <14.9000 | | <14.8400 | | 1484.0000 | 10/26/95 | 14:03 | bjg | 0.01 | @ICP-A01 |
| 506 | 2881 | 14 | | | ICSA | AG | | | | -0.0112 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 507 | 2881 | 14 | | | ICSA | AL | | | | 245.3438 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 508 | 2881 | 14 | | | ICSA | AS | | | | -0.0500 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 509 | 2881 | 14 | | | ICSA | B | | | | -0.0041 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 510 | 2881 | 14 | | | ICSA | BA | | | | 0.0019 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 511 | 2881 | 14 | | | ICSA | BE | | | | 0.0002 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.005 | @ICP-QC |
| 512 | 2881 | 14 | | | ICSA | BI | | | | -0.0288 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 513 | 2881 | 14 | | | ICSA | CA | | | | 248.8700 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 514 | 2881 | 14 | | | ICSA | CD | | | | 0.0028 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 515 | 2881 | 14 | | | ICSA | CE | | | | 0.0135 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 516 | 2881 | 14 | | | ICSA | CO | | | | 0.0034 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.02 | @ICP-QC |
| 517 | 2881 | 14 | | | ICSA | CR | | | | 0.0070 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 518 | 2881 | 14 | | | ICSA | CU | | | | -0.0086 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 519 | 2881 | 14 | | | ICSA | EU | | | | -0.0083 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 520 | 2881 | 14 | | | ICSA | FE | | | | 92.4902 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 521 | 2881 | 14 | | | ICSA | K | | | | 0.2294 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.3 | @ICP-QC |
| 522 | 2881 | 14 | | | ICSA | LA | | | | -0.0036 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 523 | 2881 | 14 | | | ICSA | LI | | | | 0.0015 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 524 | 2881 | 14 | | | ICSA | MG | | | | 249.2719 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 525 | 2881 | 14 | | | ICSA | MN | | | | -0.0068 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 526 | 2881 | 14 | | | ICSA | MO | | | | -0.0084 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 527 | 2881 | 14 | | | ICSA | NA | | | | 202.1926 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 528 | 2881 | 14 | | | ICSA | ND | | | | 0.0051 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 529 | 2881 | 14 | | | ICSA | NI | | | | -0.0056 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.02 | @ICP-QC |
| 530 | 2881 | 14 | | | ICSA | P | | | | -0.0007 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.2 | @ICP-QC |
| 531 | 2881 | 14 | | | ICSA | PB | | | | 0.0546 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 532 | 2881 | 14 | | | ICSA | S | | | | -0.0418 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 533 | 2881 | 14 | | | ICSA | SB | | | | 0.0060 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.2 | @ICP-QC |
| 534 | 2881 | 14 | | | ICSA | SE | | | | -0.0218 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 535 | 2881 | 14 | | | ICSA | SI | | | | 0.0044 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
| 536 | 2881 | 14 | | | ICSA | SM | | | | -0.0159 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.1 | @ICP-QC |
| 537 | 2881 | 14 | | | ICSA | SR | | | | 0.0017 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 538 | 2881 | 14 | | | ICSA | TH | | | | -0.0186 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0 | @ICP-QC |
| 539 | 2881 | 14 | | | ICSA | TI | | | | 0.0017 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 540 | 2881 | 14 | | | ICSA | TL | | | | 0.0548 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.2 | @ICP-QC |
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| 542 | 2881 | 14 | | | ICSA | V | | | | -0.0023 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.05 | @ICP-QC |
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| 544 | 2881 | 14 | | | ICSA | ZN | | | | 0.0045 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
| 545 | 2881 | 14 | | | ICSA | ZR | | | | -0.0033 | | 1.0000 | 10/26/95 | 14:06 | bjg | 0.01 | @ICP-QC |
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| 547 | 2881 | 15 | | | ICSAB | AL | | | | 244.0170 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
| 548 | 2881 | 15 | | | ICSAB | AS | | | | -0.0084 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
| 549 | 2881 | 15 | | | ICSAB | B | | | | -0.0008 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
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| 552 | 2881 | 15 | | | ICSAB | BI | | | | -0.0272 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.1 | @ICP-QC |
| 553 | 2881 | 15 | | | ICSAB | CA | | | | 254.6415 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.1 | @ICP-QC |
| 554 | 2881 | 15 | | | ICSAB | CD | | | | 0.9590 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
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| 556 | 2881 | 15 | | | ICSAB | CO | | | | 0.4775 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.02 | @ICP-QC |
| 557 | 2881 | 15 | | | ICSAB | CR | | | | 0.4765 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 558 | 2881 | 15 | | | ICSAB | CU | | | | 0.4983 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 559 | 2881 | 15 | | | ICSAB | EU | | | | -0.0134 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
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| 563 | 2881 | 15 | | | ICSAB | LI | | | | 1.0066 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
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| 566 | 2881 | 15 | | | ICSAB | MO | | | | -0.0118 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
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| 568 | 2881 | 15 | | | ICSAB | ND | | | | 0.0128 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.1 | @ICP-QC |
| 569 | 2881 | 15 | | | ICSAB | NI | | | | 0.9196 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.02 | @ICP-QC |
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| 572 | 2881 | 15 | | | ICSAB | S | | | | 0.0577 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
| 573 | 2881 | 15 | | | ICSAB | SB | | | | 0.0120 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.2 | @ICP-QC |
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| 575 | 2881 | 15 | | | ICSAB | SI | | | | 0.0195 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
| 576 | 2881 | 15 | | | ICSAB | SM | | | | -0.0168 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.1 | @ICP-QC |
| 577 | 2881 | 15 | | | ICSAB | SR | | | | -0.0044 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 578 | 2881 | 15 | | | ICSAB | TH | | | | -0.0120 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0 | @ICP-QC |
| 579 | 2881 | 15 | | | ICSAB | TI | | | | 0.0022 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 580 | 2881 | 15 | | | ICSAB | TL | | | | 0.0383 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.2 | @ICP-QC |
| 581 | 2881 | 15 | | | ICSAB | U | | | | -0.0153 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.4 | @ICP-QC |
| 582 | 2881 | 15 | | | ICSAB | V | | | | 0.4744 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.05 | @ICP-QC |
| 583 | 2881 | 15 | | | ICSAB | Y | | | | 0.0188 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 584 | 2881 | 15 | | | ICSAB | ZN | | | | 0.9660 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 585 | 2881 | 15 | | | ICSAB | ZR | | | | -0.0033 | | 1.0000 | 10/26/95 | 14:14 | bjg | 0.01 | @ICP-QC |
| 586 | 2881 | 16 | | | CCV | AG | | | | 5.0964 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 587 | 2881 | 16 | | | CCV | AL | | | | 4.9828 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 588 | 2881 | 16 | | | CCV | AS | | | | 5.2699 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 589 | 2881 | 16 | | | CCV | B | | | | 5.1539 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 590 | 2881 | 16 | | | CCV | BA | | | | 5.2467 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 591 | 2881 | 16 | | | CCV | BE | | | | 5.3229 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.005 | @ICP-QC |
| 592 | 2881 | 16 | | | CCV | BI | | | | 5.2023 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 593 | 2881 | 16 | | | CCV | CA | | | | 5.3190 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 594 | 2881 | 16 | | | CCV | CD | | | | 5.1488 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 595 | 2881 | 16 | | | CCV | CE | | | | 5.3458 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 596 | 2881 | 16 | | | CCV | CO | | | | 5.1553 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.02 | @ICP-QC |
| 597 | 2881 | 16 | | | CCV | CR | | | | 5.2106 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 598 | 2881 | 16 | | | CCV | CU | | | | 5.3298 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 599 | 2881 | 16 | | | CCV | EU | | | | 0.0074 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 600 | 2881 | 16 | | | CCV | FE | | | | 5.2112 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 601 | 2881 | 16 | | | CCV | K | | | | 5.2322 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.3 | @ICP-QC |
| 602 | 2881 | 16 | | | CCV | LA | | | | 5.2571 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 603 | 2881 | 16 | | | CCV | LI | | | | 5.2888 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 604 | 2881 | 16 | | | CCV | MG | | | | 5.0442 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 605 | 2881 | 16 | | | CCV | MN | | | | 5.0454 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 606 | 2881 | 16 | | | CCV | MO | | | | 5.1973 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 607 | 2881 | 16 | | | CCV | NA | | | | 5.1868 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 608 | 2881 | 16 | | | CCV | ND | | | | 5.3211 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 609 | 2881 | 16 | | | CCV | NI | | | | 5.1125 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.02 | @ICP-QC |
| 610 | 2881 | 16 | | | CCV | P | | | | 5.2054 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.2 | @ICP-QC |

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| OUTPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 611 | 2881 | 16 | | | CCV | PB | | | | 5.1800 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 612 | 2881 | 16 | | | CCV | S | | | | 5.0344 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 613 | 2881 | 16 | | | CCV | SB | | | | 4.8232 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.2 | @ICP-QC |
| 614 | 2881 | 16 | | | CCV | SE | | | | 5.0763 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 615 | 2881 | 16 | | | CCV | SI | | | | 4.9420 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 616 | 2881 | 16 | | | CCV | SM | | | | 5.1363 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.1 | @ICP-QC |
| 617 | 2881 | 16 | | | CCV | SR | | | | 5.1897 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 618 | 2881 | 16 | | | CCV | TH | | | | 0.0346 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0 | @ICP-QC |
| 619 | 2881 | 16 | | | CCV | TI | | | | 5.0685 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 620 | 2881 | 16 | | | CCV | TL | | | | 4.9657 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.2 | @ICP-QC |
| 621 | 2881 | 16 | | | CCV | U | | | | 9.9440 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.4 | @ICP-QC |
| 622 | 2881 | 16 | | | CCV | V | | | | 5.1309 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.05 | @ICP-QC |
| 623 | 2881 | 16 | | | CCV | Y | | | | 0.0092 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 624 | 2881 | 16 | | | CCV | ZN | | | | 5.1175 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 625 | 2881 | 16 | | | CCV | ZR | | | | 5.1291 | | 1.0000 | 10/26/95 | 14:17 | bjg | 0.01 | @ICP-QC |
| 626 | 2881 | 17 | | | CCB | AG | | | | 0.0016 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 627 | 2881 | 17 | | | CCB | AL | | | | 0.0096 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 628 | 2881 | 17 | | | CCB | AS | | | | 0.0108 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 629 | 2881 | 17 | | | CCB | B | | | | 0.0108 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 630 | 2881 | 17 | | | CCB | BA | | | | 0.0001 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 631 | 2881 | 17 | | | CCB | BE | | | | 0.0002 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.005 | @ICP-QC |
| 632 | 2881 | 17 | | | CCB | BI | | | | -0.0156 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 633 | 2881 | 17 | | | CCB | CA | | | | 0.0004 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 634 | 2881 | 17 | | | CCB | CD | | | | 0.0006 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 635 | 2881 | 17 | | | CCB | CE | | | | 0.0057 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 636 | 2881 | 17 | | | CCB | CO | | | | 0.0016 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.02 | @ICP-QC |
| 637 | 2881 | 17 | | | CCB | CR | | | | 0.0008 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 638 | 2881 | 17 | | | CCB | CU | | | | -0.0002 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 639 | 2881 | 17 | | | CCB | EU | | | | -0.0004 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 640 | 2881 | 17 | | | CCB | FE | | | | 0.0015 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 641 | 2881 | 17 | | | CCB | K | | | | 0.2249 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.3 | @ICP-QC |
| 642 | 2881 | 17 | | | CCB | LA | | | | 0.0013 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 643 | 2881 | 17 | | | CCB | LI | | | | -0.0007 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 644 | 2881 | 17 | | | CCB | MG | | | | 0.0070 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 645 | 2881 | 17 | | | CCB | MN | | | | 0.0001 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 646 | 2881 | 17 | | | CCB | MO | | | | 0.0039 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 647 | 2881 | 17 | | | CCB | NA | | | | -0.0062 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 648 | 2881 | 17 | | | CCB | ND | | | | 0.0019 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 649 | 2881 | 17 | | | CCB | NI | | | | 0.0009 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.02 | @ICP-QC |
| 650 | 2881 | 17 | | | CCB | P | | | | -0.0029 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.2 | @ICP-QC |
| 651 | 2881 | 17 | | | CCB | PB | | | | 0.0143 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 652 | 2881 | 17 | | | CCB | S | | | | 0.0032 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 653 | 2881 | 17 | | | CCB | SB | | | | -0.0019 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.2 | @ICP-QC |
| 654 | 2881 | 17 | | | CCB | SE | | | | 0.0000 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 655 | 2881 | 17 | | | CCB | SI | | | | 0.0037 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 656 | 2881 | 17 | | | CCB | SM | | | | -0.0063 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.1 | @ICP-QC |
| 657 | 2881 | 17 | | | CCB | SR | | | | 0.0000 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 658 | 2881 | 17 | | | CCB | TH | | | | 0.0069 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0 | @ICP-QC |
| 659 | 2881 | 17 | | | CCB | TI | | | | 0.0006 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 660 | 2881 | 17 | | | CCB | TL | | | | 0.0244 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.2 | @ICP-QC |
| 661 | 2881 | 17 | | | CCB | U | | | | -0.0245 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.4 | @ICP-QC |
| 662 | 2881 | 17 | | | CCB | V | | | | -0.0014 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.05 | @ICP-QC |
| 663 | 2881 | 17 | | | CCB | Y | | | | -0.0005 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 664 | 2881 | 17 | | | CCB | ZN | | | | 0.0013 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |
| 665 | 2881 | 17 | | | CCB | ZR | | | | -0.0005 | | 1.0000 | 10/26/95 | 14:20 | bjg | 0.01 | @ICP-QC |

DP- 145, REV. 1

SP 10/30/95

646

# LABCORE Data Entry Template for Worklist# 2047

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod A-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | LIQUID | 1 | 24.1 | N/A | ug/mL |
| | | 2 | STD | | | | TOC-02 | LIQUID | 2.79E3 | 3.00E3 | N/A | ug/mL |
| 95000104 | BY-108 (R) | 3 | SAMPLE | S95T001430 | 0 | | TOC-02 | LIQUID | N/A | 2.55E3 | 40.0 | ~~ug/mL~~ mg/g |
| 95000104 | BY-108 (R) | 4 | DUP | S95T001430 | 0 | | TOC-02 | LIQUID | 2.55E3 | 2.51E3 | N/A | ug/mL |
| 95000104 | BY-108 (R) | 5 | SPK | S95T001430 | 0 | | TOC-02 | LIQUID | 100 | 93 | N/A | ug/mL |
| 95000104 | BY-108 (R) | 6 | SAMPLE | S95T001432 | 0 | | TOC-02 | SOLID | N/A | 3.87E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 7 | DUP | S95T001432 | 0 | | TOC-02 | SOLID | 3.87E3 | 3.72E3 | N/A | ug/g |

DH 8-20-95

## Final page for worklist # 2047

8-18-95
**Analyst Signature** **Date**

9-11-95
**Analyst Signature** **Date**

Reviewed RW Schroeder 9/11/95

* Result units should be ug/g. DH 8/20/95

Sample S95T001430 liquid reported in mg/g units for accuracy and precision, due to sample adhesion to volumetric delivery. RWS 9/11/95

*Data Entry Comments:*

Tic results included with data. RWS 9/7/95

S95T001430 upper limit exceed.

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WEE P^^^^P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/18/95 Time: 08:19:09

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 0.40 | 50.00 |
| 3 | 1.51 | 0.90 | 55.56 |
| 4 | 2.01 | 1.10 | 18.18 |
| 5 | 2.51 | 1.40 | 21.43 |
| 6 | 3.01 | 1.70 | 17.65 |
| 7 | 3.51 | 2.00 | 15.00 |
| 8 | 4.00 | 2.30 | 13.04 |
| 9 | 4.50 | 2.50 | 8.00 |
| 10 | 5.00 | 2.80 | 10.71 |
| 11 | 5.50 | 3.00 | 6.67 |
| 12 | 6.00 | 3.20 | 6.25 |
| 13 | 6.50 | 3.60 | 11.11 |
| 14 | 7.00 | 3.80 | 5.26 |
| 15 | 7.50 | 4.00 | 5.00 |
| 16 | 8.00 | 4.30 | 6.98 |
| 17 | 8.50 | 4.50 | 4.44 |
| 18 | 9.00 | 4.80 | 6.25 |
| 19 | 9.50 | 5.00 | 4.00 |
| 20 | 10.00 | 5.20 | 3.85 |
| 21 | 10.50 | 5.50 | 5.45 |
| 22 | 11.00 | 5.70 | 3.51 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 648 TO 661.**

BLANK VALUE = 5.7 micrograms carbon
BLANK FACTOR = 5.7 / 11.00067 = +5.2E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000 8-18-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/18/95 Time: 08:32:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.90 | 100.00 |
| 3 | 1.51 | 1.70 | 47.06 |
| 4 | 2.00 | 3.20 | 46.88 |
| 5 | 2.50 | 4.40 | 27.27 |
| 6 | 3.01 | 6.70 | 34.33 |
| 7 | 3.51 | 8.40 | 20.24 |
| 8 | 4.01 | 10.10 | 16.83 |
| 9 | 4.50 | 12.20 | 17.21 |
| 10 | 5.00 | 13.50 | 9.63 |
| 11 | 5.50 | 14.90 | 9.40 |
| 12 | 6.00 | 16.30 | 8.59 |
| 13 | 6.50 | 17.40 | 6.32 |
| 14 | 7.00 | 18.50 | 5.95 |
| 15 | 7.50 | 19.40 | 4.64 |
| 16 | 8.00 | 20.10 | 3.48 |
| 17 | 8.50 | 20.80 | 3.37 |
| 18 | 9.00 | 21.60 | 3.70 |
| 19 | 9.50 | 22.30 | 3.14 |
| 20 | 10.00 | 23.00 | 3.04 |
| 21 | 10.50 | 23.50 | 2.13 |
| 22 | 11.00 | 24.10 | 2.49 |

BLANK VALUE = 24.1 micrograms carbon
BLANK FACTOR = 24.1 / 11.00253 = +2.19E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/18/95  Time: 09:51:05

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.80 | 0.00 |
| 2 | 1.01 | 205.40 | 97.66 |
| 3 | 1.50 | 396.30 | 48.17 |
| 4 | 2.00 | 497.00 | 20.26 |
| 5 | 2.50 | 539.50 | 7.88 |
| 6 | 3.00 | 555.60 | 2.90 |
| 7 | 3.50 | 562.40 | 1.21 |
| 8 | 4.00 | 564.50 | 0.37 |
| 9 | 4.50 | 565.80 | 0.23 |
| 10 | 5.00 | 566.90 | 0.19 |
| 11 | 5.50 | 567.40 | 0.09 |
| 12 | 6.00 | 568.00 | 0.11 |
| 13 | 6.50 | 568.50 | 0.09 |
| 14 | 7.00 | 569.00 | 0.09 |
| 15 | 7.50 | 569.40 | 0.07 |
| 16 | 8.00 | 569.80 | 0.07 |
| 17 | 8.50 | 570.10 | 0.05 |
| 18 | 9.00 | 570.50 | 0.07 |
| 19 | 9.50 | 570.80 | 0.05 |
| 20 | 10.00 | 571.10 | 0.05 |
| 21 | 10.50 | 571.30 | 0.04 |
| 22 | 11.00 | 571.70 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 571.7 - 5.71981 )(1)/(1000) = +5.660E-01 g/L Carbon
( 571.7 - 5.71981 )(1)/(1000)(12) = +4.717E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/18/95 Time: 09:37:58

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 2.70 | 92.59 |
| 3 | 1.50 | 16.40 | 83.54 |
| 4 | 2.00 | 57.80 | 71.63 |
| 5 | 2.50 | 126.80 | 54.42 |
| 6 | 3.00 | 223.80 | 43.34 |
| 7 | 3.50 | 346.80 | 35.47 |
| 8 | 4.00 | 480.00 | 27.75 |
| 9 | 4.50 | 608.20 | 21.08 |
| 10 | 5.00 | 709.80 | 14.31 |
| 11 | 5.50 | 775.80 | 8.51 |
| 12 | 6.00 | 808.90 | 4.09 |
| 13 | 6.50 | 832.90 | 2.88 |
| 14 | 7.00 | 843.00 | 1.20 |
| 15 | 7.50 | 848.30 | 0.62 |
| 16 | 8.00 | 851.40 | 0.36 |
| 17 | 8.50 | 853.60 | 0.26 |
| 18 | 9.00 | 854.90 | 0.15 |
| 19 | 9.50 | 856.50 | 0.19 |
| 20 | 10.00 | 857.70 | 0.14 |
| 21 | 10.50 | 858.80 | 0.13 |
| 22 | 11.00 | 860.00 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 860 - 24.09334 )(1)/(300) = +2.786E+00 g/L Carbon
( 860 - 24.09334 )(1)/(300)(12) = +2.322E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:10:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 8.10 | 100.00 |
| 3 | 1.51 | 57.40 | 85.89 |
| 4 | 2.00 | 166.50 | 65.53 |
| 5 | 2.50 | 250.80 | 33.61 |
| 6 | 3.00 | 289.70 | 13.43 |
| 7 | 3.50 | 307.50 | 5.79 |
| 8 | 4.00 | 314.90 | 2.35 |
| 9 | 4.50 | 318.90 | 1.25 |
| 10 | 5.00 | 321.00 | 0.65 |
| 11 | 5.50 | 323.00 | 0.62 |
| 12 | 6.00 | 324.70 | 0.52 |
| 13 | 6.50 | 325.80 | 0.34 |
| 14 | 7.00 | 327.00 | 0.37 |
| 15 | 7.50 | 328.20 | 0.37 |
| 16 | 8.00 | 329.30 | 0.33 |
| 17 | 8.50 | 330.10 | 0.24 |
| 18 | 9.00 | 330.80 | 0.21 |
| 19 | 9.50 | 331.60 | 0.24 |
| 20 | 10.00 | 332.30 | 0.21 |
| 21 | 10.50 | 333.00 | 0.21 |
| 22 | 11.00 | 333.50 | 0.15 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 333.5 - 5.719936 )(1)/(1) = +3.278E+02 g/L Carbon
( 333.5 - 5.719936 )(1)/(1)(12) = +2.732E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000



.1034g = 2.563

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:25:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 53.20 | 97.74 |
| 3 | 1.51 | 152.60 | 65.14 |
| 4 | 2.00 | 221.00 | 30.95 |
| 5 | 2.50 | 249.40 | 11.39 |
| 6 | 3.00 | 261.10 | 4.48 |
| 7 | 3.50 | 267.20 | 2.28 |
| 8 | 4.00 | 270.60 | 1.26 |
| 9 | 4.50 | 273.30 | 0.99 |
| 10 | 5.00 | 276.00 | 0.98 |
| 11 | 5.50 | 277.80 | 0.65 |
| 12 | 6.00 | 279.20 | 0.50 |
| 13 | 6.50 | 280.30 | 0.39 |
| 14 | 7.00 | 281.20 | 0.32 |
| 15 | 7.50 | 282.30 | 0.39 |
| 16 | 8.00 | 283.30 | 0.35 |
| 17 | 8.50 | 283.90 | 0.21 |
| 18 | 9.00 | 284.60 | 0.25 |
| 19 | 9.50 | 285.40 | 0.28 |
| 20 | 10.00 | 286.10 | 0.24 |
| 21 | 10.50 | 286.70 | 0.21 |
| 22 | 11.00 | 287.30 | 0.21 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 287.3 - 24.08746 )(1)/(1) = +2.632E+02 g/L Carbon
( 287.3 - 24.08746 )(1)/(1)(12) = +2.193E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

653

.1034g = 2.55e3

$\left(\frac{2.55 \times 10^{2}\ g}{8}\right)\left(1.00 \times 10^{6}\ \frac{ug}{g}\right)$

DMq 9/20/95

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:44:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 10.30 | 100.00 |
| 3 | 1.51 | 124.00 | 91.69 |
| 4 | 2.00 | 356.30 | 65.20 |
| 5 | 2.50 | 630.30 | 43.47 |
| 6 | 3.00 | 857.70 | 26.51 |
| 7 | 3.50 | 980.70 | 12.54 |
| 8 | 4.00 | 1037.50 | 5.47 |
| 9 | 4.50 | 1068.00 | 2.86 |
| 10 | 5.00 | 1085.80 | 1.64 |
| 11 | 5.50 | 1096.60 | 0.98 |
| 12 | 6.00 | 1105.20 | 0.78 |
| 13 | 6.50 | 1111.60 | 0.58 |
| 14 | 7.00 | 1117.40 | 0.52 |
| 15 | 7.50 | 1121.30 | 0.35 |
| 16 | 8.00 | 1125.10 | 0.34 |
| 17 | 8.50 | 1128.50 | 0.30 |
| 18 | 9.00 | 1131.60 | 0.27 |
| 19 | 9.50 | 1134.20 | 0.23 |
| 20 | 10.00 | 1136.70 | 0.22 |
| 21 | 10.50 | 1138.70 | 0.18 |
| 22 | 11.00 | 1140.80 | 0.18 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 1140.8 - 5.719873 )(1)/(1) = +1.1351E+03 g/L Carbon
( 1140.8 - 5.719873 )(1)/(1)(12) = +9.4590E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:59:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.70 | 0.00 |
| 2 | 1.01 | 90.00 | 98.11 |
| 3 | 1.50 | 301.80 | 70.18 |
| 4 | 2.00 | 568.40 | 46.90 |
| 5 | 2.50 | 727.80 | 21.90 |
| 6 | 3.00 | 798.60 | 8.87 |
| 7 | 3.50 | 831.00 | 3.90 |
| 8 | 4.00 | 848.10 | 2.02 |
| 9 | 4.50 | 857.90 | 1.14 |
| 10 | 5.00 | 864.60 | 0.77 |
| 11 | 5.50 | 870.60 | 0.69 |
| 12 | 6.00 | 874.20 | 0.41 |
| 13 | 6.50 | 877.50 | 0.38 |
| 14 | 7.00 | 880.30 | 0.32 |
| 15 | 7.50 | 883.60 | 0.37 |
| 16 | 8.00 | 886.10 | 0.28 |
| 17 | 8.50 | 887.70 | 0.18 |
| 18 | 9.00 | 889.20 | 0.17 |
| 19 | 9.50 | 890.30 | 0.12 |
| 20 | 10.00 | 891.30 | 0.11 |
| 21 | 10.50 | 892.40 | 0.12 |
| 22 | 11.00 | 893.30 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 893.3 - 24.09134 )(1)/(1) = +8.692E+02 g/L Carbon
( 893.3 - 24.09134 )(1)/(1)(12) = +7.243E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

655

3466g = 2.51E3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 + SPK  Date: 08/18/95  Time: 11:34:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 16.80 | 100.00 |
| 3 | 1.51 | 218.30 | 92.30 |
| 4 | 2.00 | 495.90 | 55.98 |
| 5 | 2.50 | 697.00 | 28.85 |
| 6 | 3.00 | 810.60 | 14.01 |
| 7 | 3.50 | 867.70 | 6.58 |
| 8 | 4.00 | 897.80 | 3.35 |
| 9 | 4.50 | 914.90 | 1.87 |
| 10 | 5.00 | 924.60 | 1.05 |
| 11 | 5.50 | 932.30 | 0.83 |
| 12 | 6.00 | 938.20 | 0.63 |
| 13 | 6.50 | 943.00 | 0.51 |
| 14 | 7.00 | 947.70 | 0.50 |
| 15 | 7.50 | 951.60 | 0.41 |
| 16 | 8.00 | 955.00 | 0.36 |
| 17 | 8.50 | 957.70 | 0.28 |
| 18 | 9.00 | 960.70 | 0.31 |
| 19 | 9.50 | 962.90 | 0.23 |
| 20 | 10.00 | 965.40 | 0.26 |
| 21 | 10.50 | 967.00 | 0.17 |
| 22 | 11.00 | 969.00 | 0.21 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 969 - 5.720889 )(1)/(1) = +9.633E+02 g/L Carbon
( 969 - 5.720889 )(1)/(1)(12) = +8.027E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 + SPK  Date: 08/18/95  Time: 11:50:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 34.70 | 98.27 |
| 3 | 1.50 | 165.90 | 79.08 |
| 4 | 2.00 | 375.50 | 55.82 |
| 5 | 2.50 | 568.70 | 33.97 |
| 6 | 3.00 | 675.20 | 15.77 |
| 7 | 3.50 | 728.50 | 7.32 |
| 8 | 4.00 | 756.20 | 3.66 |
| 9 | 4.50 | 771.20 | 1.95 |
| 10 | 5.00 | 779.70 | 1.09 |
| 11 | 5.50 | 785.00 | 0.68 |
| 12 | 6.00 | 789.00 | 0.51 |
| 13 | 6.50 | 792.00 | 0.38 |
| 14 | 7.00 | 794.40 | 0.30 |
| 15 | 7.50 | 796.40 | 0.25 |
| 16 | 8.00 | 797.90 | 0.19 |
| 17 | 8.50 | 799.40 | 0.19 |
| 18 | 9.00 | 800.70 | 0.16 |
| 19 | 9.50 | 801.70 | 0.12 |
| 20 | 10.00 | 802.70 | 0.12 |
| 21 | 10.50 | 803.50 | 0.10 |
| 22 | 11.00 | 804.30 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 804.3 - 24.0896 )(1)/(1) = +7.802E+02 g/L Carbon
( 804.3 - 24.0896 )(1)/(1)(12) = +6.502E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

657

.20289 + .1mL 16N12B = 93% REC

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:08:32

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 4.50 | 73.33 |
| 3 | 1.50 | 55.80 | 91.94 |
| 4 | 2.00 | 217.80 | 74.38 |
| 5 | 2.50 | 480.10 | 54.63 |
| 6 | 3.00 | 728.10 | 34.06 |
| 7 | 3.50 | 916.00 | 20.51 |
| 8 | 4.00 | 1029.00 | 10.98 |
| 9 | 4.50 | 1095.20 | 6.04 |
| 10 | 5.00 | 1135.00 | 3.51 |
| 11 | 5.50 | 1159.40 | 2.10 |
| 12 | 6.00 | 1175.20 | 1.34 |
| 13 | 6.50 | 1185.00 | 0.83 |
| 14 | 7.00 | 1192.00 | 0.59 |
| 15 | 7.50 | 1198.40 | 0.53 |
| 16 | 8.00 | 1206.80 | 0.70 |
| 17 | 8.50 | 1216.60 | 0.81 |
| 18 | 9.00 | 1224.60 | 0.65 |
| 19 | 9.50 | 1230.50 | 0.48 |
| 20 | 10.00 | 1235.50 | 0.40 |
| 21 | 10.50 | 1240.50 | 0.40 |
| 22 | 11.00 | 1245.30 | 0.39 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 1245.3 - 5.720793 )(1)/(1) = +1.2396E+03 g/L Carbon
( 1245.3 - 5.720793 )(1)/(1)(12) = +1.0330E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:20:57

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.00 | 0.00 |
| 2 | 1.01 | 27.60 | 92.75 |
| 3 | 1.50 | 212.20 | 86.99 |
| 4 | 2.00 | 407.70 | 47.95 |
| 5 | 2.50 | 571.70 | 28.69 |
| 6 | 3.00 | 693.10 | 17.52 |
| 7 | 3.50 | 772.10 | 10.23 |
| 8 | 4.00 | 822.80 | 6.16 |
| 9 | 4.50 | 855.90 | 3.87 |
| 10 | 5.00 | 876.90 | 2.39 |
| 11 | 5.50 | 889.60 | 1.43 |
| 12 | 6.00 | 897.20 | 0.85 |
| 13 | 6.50 | 902.70 | 0.61 |
| 14 | 7.00 | 906.80 | 0.45 |
| 15 | 7.50 | 909.70 | 0.32 |
| 16 | 8.00 | 912.40 | 0.30 |
| 17 | 8.50 | 914.60 | 0.24 |
| 18 | 9.00 | 916.40 | 0.20 |
| 19 | 9.50 | 917.90 | 0.16 |
| 20 | 10.00 | 919.40 | 0.16 |
| 21 | 10.50 | 920.90 | 0.16 |
| 22 | 11.00 | 922.20 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 922.2 - 24.08933 )(1)/(1) = +8.981E+02 g/L Carbon
( 922.2 - 24.08933 )(1)/(1)(12) = +7.484E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

659

.2320g = 3.87E-3

^P

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:38:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.00 | 0.00 |
| 2 | 1.01 | 5.70 | 64.91 |
| 3 | 1.50 | 13.70 | 58.39 |
| 4 | 2.00 | 156.70 | 91.26 |
| 5 | 2.50 | 543.10 | 71.15 |
| 6 | 3.00 | 903.70 | 39.90 |
| 7 | 3.50 | 1152.30 | 21.57 |
| 8 | 4.00 | 1312.00 | 12.17 |
| 9 | 4.50 | 1398.60 | 6.19 |
| 10 | 5.00 | 1440.20 | 2.89 |
| 11 | 5.50 | 1463.50 | 1.59 |
| 12 | 6.00 | 1476.80 | 0.90 |
| 13 | 6.50 | 1486.10 | 0.63 |
| 14 | 7.00 | 1492.60 | 0.44 |
| 15 | 7.50 | 1497.50 | 0.33 |
| 16 | 8.00 | 1501.80 | 0.29 |
| 17 | 8.50 | 1505.90 | 0.27 |
| 18 | 9.00 | 1509.40 | 0.23 |
| 19 | 9.50 | 1512.60 | 0.21 |
| 20 | 10.00 | 1515.30 | 0.18 |
| 21 | 10.50 | 1517.60 | 0.15 |
| 22 | 11.00 | 1519.70 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 1519.7 - 5.719936 )(1)/(1) = +1.5140E+03 g/L Carbon
( 1519.7 - 5.719936 )(1)/(1)(12) = +1.2617E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:53:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 165.60 | 99.21 |
| 3 | 1.50 | 374.40 | 55.77 |
| 4 | 2.00 | 530.80 | 29.46 |
| 5 | 2.50 | 658.40 | 19.38 |
| 6 | 3.00 | 748.10 | 11.99 |
| 7 | 3.50 | 818.10 | 8.56 |
| 8 | 4.00 | 870.10 | 5.98 |
| 9 | 4.50 | 910.00 | 4.38 |
| 10 | 5.00 | 940.30 | 3.22 |
| 11 | 5.50 | 962.30 | 2.29 |
| 12 | 6.00 | 977.40 | 1.54 |
| 13 | 6.50 | 987.00 | 0.97 |
| 14 | 7.00 | 994.20 | 0.72 |
| 15 | 7.50 | 1000.00 | 0.58 |
| 16 | 8.00 | 1004.10 | 0.41 |
| 17 | 8.50 | 1007.00 | 0.29 |
| 18 | 9.00 | 1009.30 | 0.23 |
| 19 | 9.50 | 1011.20 | 0.19 |
| 20 | 10.00 | 1012.60 | 0.14 |
| 21 | 10.50 | 1013.90 | 0.13 |
| 22 | 11.00 | 1015.10 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 1015.1 - 24.08907 )(1)/(1) = +9.9101E+02 g/L Carbon
( 1015.1 - 24.08907 )(1)/(1)(12) = +8.2584E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.2663g = 3.79E3

661

# LABCORE Data Entry Template for Worklist# 2100

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod A-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 28.4 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00e3 | 2.74e3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 3 | SAMPLE | S95T001431 | 0 | | TOC-02 | SOLID | N/A | 3.98e3 | | ug/g |
| 95000104 | BY-108 (R) | 4 | DUP | S95T001431 | 0 | | TOC-02 | SOLID | 3.98e3 | 4.10e3 | N/A | ug/g |

## Final page for worklist # 2100

8-24-95
**Analyst Signature** **Date**

8-25-95
**Analyst Signature** **Date**

RW Schroeder 9/4/95

*Data Entry Comments:* TIC data included as supporting (extra) data. RWS 8/29/

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/21/95  Time: 08:03:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.30 | 66.67 |
| 3 | 1.51 | 0.50 | 40.00 |
| 4 | 2.01 | 0.80 | 37.50 |
| 5 | 2.51 | 0.90 | 11.11 |
| 6 | 3.01 | 1.10 | 18.18 |
| 7 | 3.51 | 1.30 | 15.38 |
| 8 | 4.00 | 1.40 | 7.14 |
| 9 | 4.50 | 1.50 | 6.67 |
| 10 | 5.00 | 1.60 | 6.25 |
| 11 | 5.50 | 1.80 | 11.11 |
| 12 | 6.00 | 1.90 | 5.26 |
| 13 | 6.50 | 2.00 | 5.00 |
| 14 | 7.00 | 2.10 | 4.76 |
| 15 | 7.50 | 2.20 | 4.55 |
| 16 | 8.00 | 2.30 | 4.35 |
| 17 | 8.50 | 2.50 | 8.00 |
| 18 | 9.00 | 2.60 | 3.85 |
| 19 | 9.50 | 2.70 | 3.70 |
| 20 | 10.00 | 2.80 | 3.57 |
| 21 | 10.50 | 2.90 | 3.45 |
| 22 | 11.00 | 3.00 | 3.33 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 663 TO 670.**

BLANK VALUE = 3 micrograms carbon
BLANK FACTOR = 3 / 10.99884 = +2.7E-01 ug/min Carbon

Sample Run By: 8-21-95
KR MONTEITH 00000

^^p^

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/21/95  Time: 08:15:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 6.70 | 82.09 |
| 3 | 1.51 | 12.40 | 45.97 |
| 4 | 2.00 | 16.30 | 23.93 |
| 5 | 2.50 | 18.50 | 11.89 |
| 6 | 3.00 | 19.70 | 6.09 |
| 7 | 3.50 | 20.70 | 4.83 |
| 8 | 4.00 | 21.20 | 2.36 |
| 9 | 4.50 | 21.80 | 2.75 |
| 10 | 5.00 | 22.30 | 2.24 |
| 11 | 5.50 | 22.80 | 2.19 |
| 12 | 6.00 | 23.10 | 1.30 |
| 13 | 6.50 | 23.50 | 1.70 |
| 14 | 7.00 | 24.10 | 2.49 |
| 15 | 7.50 | 24.60 | 2.03 |
| 16 | 8.00 | 25.20 | 2.38 |
| 17 | 8.50 | 25.60 | 1.56 |
| 18 | 9.00 | 26.00 | 1.54 |
| 19 | 9.50 | 26.50 | 1.89 |
| 20 | 10.00 | 27.30 | 2.93 |
| 21 | 10.50 | 27.80 | 1.80 |
| 22 | 11.00 | 28.40 | 2.11 |

BLANK VALUE = 28.4 micrograms carbon
BLANK FACTOR = 28.4 / 11.00067 = +2.58E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/21/95  Time: 08:32:03

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 14.70 | 0.00 |
| 2 | 1.01 | 220.50 | 93.33 |
| 3 | 1.51 | 405.30 | 45.60 |
| 4 | 2.01 | 506.30 | 19.95 |
| 5 | 2.51 | 552.90 | 8.43 |
| 6 | 3.01 | 569.90 | 2.98 |
| 7 | 3.51 | 575.70 | 1.01 |
| 8 | 4.01 | 578.30 | 0.45 |
| 9 | 4.50 | 579.70 | 0.24 |
| 10 | 5.00 | 580.80 | 0.19 |
| 11 | 5.50 | 581.60 | 0.14 |
| 12 | 6.00 | 582.40 | 0.14 |
| 13 | 6.50 | 583.00 | 0.10 |
| 14 | 7.00 | 583.70 | 0.12 |
| 15 | 7.50 | 584.20 | 0.09 |
| 16 | 8.00 | 584.80 | 0.10 |
| 17 | 8.50 | 585.30 | 0.09 |
| 18 | 9.00 | 585.80 | 0.09 |
| 19 | 9.50 | 586.30 | 0.09 |
| 20 | 10.00 | 586.70 | 0.07 |
| 21 | 10.50 | 587.10 | 0.07 |
| 22 | 11.00 | 587.50 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
( 587.5 - 2.970445 )(1)/(1000) = +5.845E-01 g/L Carbon
( 587.5 - 2.970445 )(1)/(1000)(12) = +4.871E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/21/95  Time: 08:45:16

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.50 | 0.00 |
| 2 | 1.01 | 102.90 | 98.54 |
| 3 | 1.51 | 412.70 | 75.07 |
| 4 | 2.00 | 701.50 | 41.17 |
| 5 | 2.50 | 795.70 | 11.84 |
| 6 | 3.00 | 821.20 | 3.11 |
| 7 | 3.50 | 829.80 | 1.04 |
| 8 | 4.00 | 833.40 | 0.43 |
| 9 | 4.50 | 835.80 | 0.29 |
| 10 | 5.00 | 837.70 | 0.23 |
| 11 | 5.50 | 839.10 | 0.17 |
| 12 | 6.00 | 840.40 | 0.15 |
| 13 | 6.50 | 841.40 | 0.12 |
| 14 | 7.00 | 842.40 | 0.12 |
| 15 | 7.50 | 843.50 | 0.13 |
| 16 | 8.00 | 844.20 | 0.08 |
| 17 | 8.50 | 845.00 | 0.09 |
| 18 | 9.00 | 845.80 | 0.09 |
| 19 | 9.50 | 846.60 | 0.09 |
| 20 | 10.00 | 847.40 | 0.09 |
| 21 | 10.50 | 848.40 | 0.12 |
| 22 | 11.00 | 849.30 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 849.3 - 28.37701 )(1)/(300) = +2.736E+00 g/L Carbon
( 849.3 - 28.37701 )(1)/(300)(12) = +2.280E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

PPPP

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 10:29:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.80 | 0.00 |
| 2 | 1.01 | 22.40 | 91.96 |
| 3 | 1.51 | 115.30 | 80.57 |
| 4 | 2.00 | 265.90 | 56.64 |
| 5 | 2.50 | 479.60 | 44.56 |
| 6 | 3.00 | 629.90 | 23.86 |
| 7 | 3.50 | 708.70 | 11.12 |
| 8 | 4.00 | 745.30 | 4.91 |
| 9 | 4.50 | 761.50 | 2.13 |
| 10 | 5.00 | 769.40 | 1.03 |
| 11 | 5.50 | 773.90 | 0.58 |
| 12 | 6.00 | 777.40 | 0.45 |
| 13 | 6.50 | 780.50 | 0.40 |
| 14 | 7.00 | 783.10 | 0.33 |
| 15 | 7.50 | 785.50 | 0.31 |
| 16 | 8.00 | 787.50 | 0.25 |
| 17 | 8.50 | 789.40 | 0.24 |
| 18 | 9.00 | 791.00 | 0.20 |
| 19 | 9.50 | 792.40 | 0.18 |
| 20 | 10.00 | 793.80 | 0.18 |
| 21 | 10.50 | 795.00 | 0.15 |
| 22 | 11.00 | 796.20 | 0.15 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
( 796.2 - 2.969934 )(1)/(1) = +7.932E+02 g/L Carbon
( 796.2 - 2.969934 )(1)/(1)(12) = +6.610E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 10:43:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 11.70 | 0.00 |
| 2 | 1.01 | 217.20 | 94.61 |
| 3 | 1.51 | 403.60 | 46.18 |
| 4 | 2.00 | 511.70 | 21.13 |
| 5 | 2.50 | 559.20 | 8.49 |
| 6 | 3.00 | 580.50 | 3.67 |
| 7 | 3.50 | 589.60 | 1.54 |
| 8 | 4.00 | 594.50 | 0.82 |
| 9 | 4.50 | 597.50 | 0.50 |
| 10 | 5.00 | 600.00 | 0.42 |
| 11 | 5.50 | 602.00 | 0.33 |
| 12 | 6.00 | 603.50 | 0.25 |
| 13 | 6.50 | 605.00 | 0.25 |
| 14 | 7.00 | 606.20 | 0.20 |
| 15 | 7.50 | 607.50 | 0.21 |
| 16 | 8.00 | 609.10 | 0.26 |
| 17 | 8.50 | 610.20 | 0.18 |
| 18 | 9.00 | 611.20 | 0.16 |
| 19 | 9.50 | 612.00 | 0.13 |
| 20 | 10.00 | 612.70 | 0.11 |
| 21 | 10.50 | 613.60 | 0.15 |
| 22 | 11.00 | 614.30 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 614.3 - 28.37921 )(1)/(1) = +5.859E+02 g/L Carbon
( 614.3 - 28.37921 )(1)/(1)(12) = +4.883E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.1472g = 3.98 e³

668

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 11:00:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 5.70 | 94.74 |
| 3 | 1.51 | 55.90 | 89.80 |
| 4 | 2.00 | 196.60 | 71.57 |
| 5 | 2.50 | 419.70 | 53.16 |
| 6 | 3.00 | 644.00 | 34.83 |
| 7 | 3.50 | 816.70 | 21.15 |
| 8 | 4.00 | 921.10 | 11.33 |
| 9 | 4.50 | 983.70 | 6.36 |
| 10 | 5.00 | 1019.80 | 3.54 |
| 11 | 5.50 | 1039.30 | 1.88 |
| 12 | 6.00 | 1051.50 | 1.16 |
| 13 | 6.50 | 1060.90 | 0.89 |
| 14 | 7.00 | 1067.90 | 0.66 |
| 15 | 7.50 | 1074.50 | 0.61 |
| 16 | 8.00 | 1080.30 | 0.54 |
| 17 | 8.50 | 1085.20 | 0.45 |
| 18 | 9.00 | 1089.60 | 0.40 |
| 19 | 9.50 | 1093.80 | 0.38 |
| 20 | 10.00 | 1097.20 | 0.31 |
| 21 | 10.50 | 1100.80 | 0.33 |
| 22 | 11.00 | 1103.90 | 0.28 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
( 1103.9 - 2.969918 )(1)/(1) = +1.1009E+03 g/L Carbon
( 1103.9 - 2.969918 )(1)/(1)(12) = +9.1744E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 11:12:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.30 | 0.00 |
| 2 | 1.01 | 103.70 | 95.85 |
| 3 | 1.50 | 360.80 | 71.26 |
| 4 | 2.00 | 582.50 | 38.06 |
| 5 | 2.50 | 723.50 | 19.49 |
| 6 | 3.00 | 798.10 | 9.35 |
| 7 | 3.50 | 835.00 | 4.42 |
| 8 | 4.00 | 850.70 | 1.85 |
| 9 | 4.50 | 860.10 | 1.09 |
| 10 | 5.00 | 866.00 | 0.68 |
| 11 | 5.50 | 870.60 | 0.53 |
| 12 | 6.00 | 873.70 | 0.35 |
| 13 | 6.50 | 876.70 | 0.34 |
| 14 | 7.00 | 878.90 | 0.25 |
| 15 | 7.50 | 881.10 | 0.25 |
| 16 | 8.00 | 882.90 | 0.20 |
| 17 | 8.50 | 884.80 | 0.21 |
| 18 | 9.00 | 886.40 | 0.18 |
| 19 | 9.50 | 887.90 | 0.17 |
| 20 | 10.00 | 889.00 | 0.12 |
| 21 | 10.50 | 890.30 | 0.15 |
| 22 | 11.00 | 891.30 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 891.3 - 28.37906 )(1)/(1) = +8.629E+02 g/L Carbon
( 891.3 - 28.37906 )(1)/(1)(12) = +7.191E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

670

.8103g = 4.10 m³

# LABCORE Data Entry Template for Worklist# 2111

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12-B

**Method:** LA-342-100 Rev/Mod A.0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | LIQUID | 1 | 29.8 | N/A | ug/mL |
| | | 2 | STD | | | | TOC-02 | LIQUID | 3.00E3 | 2.89E3 | N/A | ug/mL |
| 95000104 | BY-108 (R) | 3 | SAMPLE | S95T001373 | 0 | | TOC-02 | LIQUID | N/A | 2.64E3 | 40.0 | ug/mL |
| 95000104 | BY-108 (R) | 4 | DUP | S95T001373 | 0 | | TOC-02 | LIQUID | 2.64E3 | 2.74E3 | N/A | ug/mL |
| 95000104 | BY-108 (R) | 5 | SAMPLE | S95T001433 | 0 | | TOC-02 | SOLID | N/A | 3.04E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 6 | DUP | S95T001433 | 0 | | TOC-02 | SOLID | 3.04E3 | 3.24E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001390 | 0 | | TOC-02 | SOLID | N/A | 2.33E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001390 | 0 | | TOC-02 | SOLID | 2.33E3 | 2.23E3 | N/A | ug/g |

## Final page for worklist # 2111

8-28-95
**Analyst Signature** **Date**

9/5/95
**Analyst Signature** **Date**

*Data Entry Comments:* Tic data included as supporting (extra) data. RWS 9/5/

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

^P^^^P^PPP

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/28/95  Time: 17:21:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.20 | 100.00 |
| 3 | 1.51 | 0.40 | 50.00 |
| 4 | 2.00 | 0.70 | 42.86 |
| 5 | 2.50 | 0.80 | 12.50 |
| 6 | 3.00 | 1.20 | 33.33 |
| 7 | 3.50 | 1.20 | 0.00 |
| 8 | 4.00 | 1.20 | 0.00 |
| 9 | 4.50 | 1.20 | 0.00 |
| 10 | 5.00 | 1.30 | 7.69 |
| 11 | 5.50 | 1.40 | 7.14 |
| 12 | 6.00 | 1.50 | 6.67 |
| 13 | 6.50 | 1.60 | 6.25 |
| 14 | 7.00 | 1.70 | 5.88 |
| 15 | 7.50 | 1.70 | 0.00 |
| 16 | 8.00 | 1.80 | 5.56 |
| 17 | 8.50 | 1.90 | 5.26 |
| 18 | 9.00 | 2.00 | 5.00 |
| 19 | 9.50 | 2.10 | 4.76 |
| 20 | 10.00 | 2.10 | 0.00 |
| 21 | 10.50 | 2.20 | 4.55 |
| 22 | 11.00 | 2.30 | 4.35 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 672 TO 681.**

BLANK VALUE = 2.3 micrograms carbon
BLANK FACTOR = 2.3 / 11.00061 = +2.1E-01 ug/min Carbon

Sample Run By KR MONTEITH 8-28-95
00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/28/95  Time: 17:38:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 4.60 | 100.00 |
| 3 | 1.51 | 13.30 | 65.41 |
| 4 | 2.00 | 18.90 | 29.63 |
| 5 | 2.50 | 21.60 | 12.50 |
| 6 | 3.01 | 22.90 | 5.68 |
| 7 | 3.50 | 24.10 | 4.98 |
| 8 | 4.00 | 24.60 | 2.03 |
| 9 | 4.50 | 25.20 | 2.38 |
| 10 | 5.00 | 25.80 | 2.33 |
| 11 | 5.50 | 26.40 | 2.27 |
| 12 | 6.00 | 26.70 | 1.12 |
| 13 | 6.50 | 27.10 | 1.48 |
| 14 | 7.00 | 27.60 | 1.81 |
| 15 | 7.50 | 27.90 | 1.08 |
| 16 | 8.00 | 28.20 | 1.06 |
| 17 | 8.50 | 28.40 | 0.70 |
| 18 | 9.00 | 28.70 | 1.05 |
| 19 | 9.50 | 28.90 | 0.69 |
| 20 | 10.00 | 29.20 | 1.03 |
| 21 | 10.50 | 29.60 | 1.35 |
| 22 | 11.00 | 29.80 | 0.67 |

BLANK VALUE = 29.8 micrograms carbon
BLANK FACTOR = 29.8 / 10.99963 = +2.71E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/28/95  Time: 18:15:32

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.10 | 0.00 |
| 2 | 1.00 | 159.00 | 99.31 |
| 3 | 1.50 | 366.20 | 56.58 |
| 4 | 2.00 | 483.00 | 24.18 |
| 5 | 2.50 | 541.30 | 10.77 |
| 6 | 3.00 | 564.60 | 4.13 |
| 7 | 3.50 | 573.00 | 1.47 |
| 8 | 4.00 | 576.10 | 0.54 |
| 9 | 4.50 | 577.60 | 0.26 |
| 10 | 5.00 | 578.60 | 0.17 |
| 11 | 5.50 | 579.40 | 0.14 |
| 12 | 6.00 | 580.20 | 0.14 |
| 13 | 6.50 | 580.80 | 0.10 |
| 14 | 7.00 | 581.20 | 0.07 |
| 15 | 7.50 | 581.70 | 0.09 |
| 16 | 8.00 | 582.10 | 0.07 |
| 17 | 8.50 | 582.40 | 0.05 |
| 18 | 9.00 | 582.70 | 0.05 |
| 19 | 9.50 | 583.20 | 0.09 |
| 20 | 10.00 | 583.40 | 0.03 |
| 21 | 10.50 | 583.70 | 0.05 |
| 22 | 11.00 | 584.00 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 584 - 2.309949 )(1)/(1000) = +5.817E-01 g/L Carbon
( 584 - 2.309949 )(1)/(1000)(12) = +4.847E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/28/95  Time: 18:03:05

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 47.80 | 100.00 |
| 3 | 1.50 | 283.90 | 83.16 |
| 4 | 2.00 | 637.20 | 55.45 |
| 5 | 2.50 | 809.00 | 21.24 |
| 6 | 3.00 | 861.30 | 6.07 |
| 7 | 3.50 | 876.60 | 1.75 |
| 8 | 4.00 | 882.30 | 0.65 |
| 9 | 4.50 | 885.10 | 0.32 |
| 10 | 5.00 | 886.60 | 0.17 |
| 11 | 5.50 | 888.10 | 0.17 |
| 12 | 6.00 | 889.30 | 0.13 |
| 13 | 6.50 | 890.30 | 0.11 |
| 14 | 7.00 | 891.20 | 0.10 |
| 15 | 7.50 | 891.90 | 0.08 |
| 16 | 8.00 | 892.60 | 0.08 |
| 17 | 8.50 | 893.20 | 0.07 |
| 18 | 9.00 | 893.70 | 0.06 |
| 19 | 9.50 | 894.20 | 0.06 |
| 20 | 10.00 | 894.60 | 0.04 |
| 21 | 10.50 | 895.10 | 0.06 |
| 22 | 11.00 | 895.40 | 0.03 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 895.4 - 29.80636 )(1)/(300) = +2.885E+00 g/L Carbon
( 895.4 - 29.80636 )(1)/(300)(12) = +2.404E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:27:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 10.30 | 100.00 |
| 3 | 1.51 | 144.20 | 92.86 |
| 4 | 2.00 | 407.90 | 64.65 |
| 5 | 2.50 | 653.50 | 37.58 |
| 6 | 3.00 | 878.30 | 25.59 |
| 7 | 3.50 | 1043.70 | 15.85 |
| 8 | 4.00 | 1121.60 | 6.95 |
| 9 | 4.50 | 1156.90 | 3.05 |
| 10 | 5.00 | 1174.10 | 1.46 |
| 11 | 5.50 | 1184.00 | 0.84 |
| 12 | 6.00 | 1190.70 | 0.56 |
| 13 | 6.50 | 1196.00 | 0.44 |
| 14 | 7.00 | 1200.80 | 0.40 |
| 15 | 7.50 | 1204.10 | 0.27 |
| 16 | 8.00 | 1207.60 | 0.29 |
| 17 | 8.50 | 1210.30 | 0.22 |
| 18 | 9.00 | 1212.70 | 0.20 |
| 19 | 9.50 | 1214.90 | 0.18 |
| 20 | 10.00 | 1216.60 | 0.14 |
| 21 | 10.50 | 1218.20 | 0.13 |
| 22 | 11.00 | 1219.60 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 1219.6 - 2.30959 )(1)/(1) = +1.2173E+03 g/L Carbon
( 1219.6 - 2.30959 )(1)/(1)(12) = +1.0144E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:39:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.20 | 0.00 |
| 2 | 1.01 | 23.20 | 90.52 |
| 3 | 1.51 | 160.80 | 85.57 |
| 4 | 2.00 | 419.00 | 61.62 |
| 5 | 2.50 | 558.80 | 25.02 |
| 6 | 3.00 | 617.60 | 9.52 |
| 7 | 3.50 | 644.30 | 4.14 |
| 8 | 4.00 | 656.80 | 1.90 |
| 9 | 4.50 | 664.80 | 1.20 |
| 10 | 5.00 | 669.40 | 0.69 |
| 11 | 5.50 | 673.60 | 0.62 |
| 12 | 6.00 | 676.20 | 0.38 |
| 13 | 6.50 | 678.70 | 0.37 |
| 14 | 7.00 | 680.50 | 0.26 |
| 15 | 7.50 | 682.40 | 0.28 |
| 16 | 8.00 | 683.70 | 0.19 |
| 17 | 8.50 | 684.80 | 0.16 |
| 18 | 9.00 | 686.20 | 0.20 |
| 19 | 9.50 | 687.60 | 0.20 |
| 20 | 10.00 | 688.70 | 0.16 |
| 21 | 10.50 | 689.70 | 0.14 |
| 22 | 11.00 | 690.40 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 690.4 - 29.80901 )(1)/(1) = +6.606E+02 g/L Carbon
( 690.4 - 29.80901 )(1)/(1)(12) = +5.505E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

677

.250mL = 2.64E3

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:51:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 10.50 | 94.29 |
| 3 | 1.51 | 129.50 | 91.89 |
| 4 | 2.00 | 371.00 | 65.09 |
| 5 | 2.50 | 563.80 | 34.20 |
| 6 | 3.00 | 697.00 | 19.11 |
| 7 | 3.50 | 916.70 | 23.97 |
| 8 | 4.00 | 1080.80 | 15.18 |
| 9 | 4.50 | 1154.30 | 6.37 |
| 10 | 5.00 | 1192.50 | 3.20 |
| 11 | 5.50 | 1211.80 | 1.59 |
| 12 | 6.00 | 1224.30 | 1.02 |
| 13 | 6.50 | 1234.10 | 0.79 |
| 14 | 7.00 | 1242.00 | 0.64 |
| 15 | 7.50 | 1248.50 | 0.52 |
| 16 | 8.00 | 1254.20 | 0.45 |
| 17 | 8.50 | 1259.40 | 0.41 |
| 18 | 9.00 | 1263.70 | 0.34 |
| 19 | 9.50 | 1267.00 | 0.26 |
| 20 | 10.00 | 1270.60 | 0.28 |
| 21 | 10.50 | 1273.40 | 0.22 |
| 22 | 11.00 | 1276.40 | 0.24 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 1276.4 - 2.309974 )(1)/(1) = +1.2741E+03 g/L Carbon
( 1276.4 - 2.309974 )(1)/(1)(12) = +1.0617E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 20:08:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 3.70 | 0.00 |
| 2 | 1.01 | 22.90 | 83.84 |
| 3 | 1.51 | 164.60 | 86.09 |
| 4 | 2.00 | 434.80 | 62.14 |
| 5 | 2.50 | 576.50 | 24.58 |
| 6 | 3.00 | 635.00 | 9.21 |
| 7 | 3.50 | 662.30 | 4.12 |
| 8 | 4.00 | 675.70 | 1.98 |
| 9 | 4.50 | 684.20 | 1.24 |
| 10 | 5.00 | 689.50 | 0.77 |
| 11 | 5.50 | 693.50 | 0.58 |
| 12 | 6.00 | 697.40 | 0.56 |
| 13 | 6.50 | 700.10 | 0.39 |
| 14 | 7.00 | 703.00 | 0.41 |
| 15 | 7.50 | 705.70 | 0.38 |
| 16 | 8.00 | 707.90 | 0.31 |
| 17 | 8.50 | 709.60 | 0.24 |
| 18 | 9.00 | 710.70 | 0.15 |
| 19 | 9.50 | 712.20 | 0.21 |
| 20 | 10.00 | 713.40 | 0.17 |
| 21 | 10.50 | 714.50 | 0.15 |
| 22 | 11.00 | 715.90 | 0.20 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 715.9 - 29.80934 )(1)/(1) = +6.861E+02 g/L Carbon
( 715.9 - 29.80934 )(1)/(1)(12) = +5.717E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000



.250mL = 2.74E-3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:24:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 16.20 | 100.00 |
| 3 | 1.50 | 161.60 | 89.98 |
| 4 | 2.00 | 406.60 | 60.26 |
| 5 | 2.50 | 707.20 | 42.51 |
| 6 | 3.00 | 972.20 | 27.26 |
| 7 | 3.50 | 1144.10 | 15.02 |
| 8 | 4.00 | 1233.90 | 7.28 |
| 9 | 4.50 | 1281.40 | 3.71 |
| 10 | 5.00 | 1306.90 | 1.95 |
| 11 | 5.50 | 1321.00 | 1.07 |
| 12 | 6.00 | 1331.50 | 0.79 |
| 13 | 6.50 | 1339.70 | 0.61 |
| 14 | 7.00 | 1346.60 | 0.51 |
| 15 | 7.50 | 1352.20 | 0.41 |
| 16 | 8.00 | 1357.40 | 0.38 |
| 17 | 8.50 | 1361.80 | 0.32 |
| 18 | 9.00 | 1365.40 | 0.26 |
| 19 | 9.50 | 1368.70 | 0.24 |
| 20 | 10.00 | 1371.50 | 0.20 |
| 21 | 10.50 | 1374.20 | 0.20 |
| 22 | 11.00 | 1376.40 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 1376.4 - 2.309974 )(1)/(1) = +1.3741E+03 g/L Carbon
( 1376.4 - 2.309974 )(1)/(1)(12) = +1.1451E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:36:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 3.00 | 0.00 |
| 2 | 1.01 | 143.50 | 97.91 |
| 3 | 1.51 | 505.80 | 71.63 |
| 4 | 2.00 | 809.20 | 37.49 |
| 5 | 2.50 | 944.20 | 14.30 |
| 6 | 3.00 | 996.90 | 5.29 |
| 7 | 3.50 | 1020.10 | 2.27 |
| 8 | 4.00 | 1031.40 | 1.10 |
| 9 | 4.50 | 1039.20 | 0.75 |
| 10 | 5.00 | 1044.10 | 0.47 |
| 11 | 5.50 | 1048.30 | 0.40 |
| 12 | 6.00 | 1051.40 | 0.29 |
| 13 | 6.50 | 1054.00 | 0.25 |
| 14 | 7.00 | 1056.40 | 0.23 |
| 15 | 7.50 | 1058.60 | 0.21 |
| 16 | 8.00 | 1060.70 | 0.20 |
| 17 | 8.50 | 1062.70 | 0.19 |
| 18 | 9.00 | 1064.40 | 0.16 |
| 19 | 9.50 | 1065.80 | 0.13 |
| 20 | 10.00 | 1067.20 | 0.13 |
| 21 | 10.50 | 1068.40 | 0.11 |
| 22 | 11.00 | 1069.50 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 1069.5 - 29.81199 )(1)/(1) = +1.0397E+03 g/L Carbon
( 1069.5 - 29.81199 )(1)/(1)(12) = +8.6641E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000



.4470 = 2.336 3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:49:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 22.70 | 94.27 |
| 3 | 1.51 | 227.80 | 90.04 |
| 4 | 2.01 | 480.40 | 52.58 |
| 5 | 2.50 | 702.20 | 31.59 |
| 6 | 3.00 | 870.80 | 19.36 |
| 7 | 3.50 | 995.00 | 12.48 |
| 8 | 4.00 | 1071.10 | 7.10 |
| 9 | 4.50 | 1117.50 | 4.15 |
| 10 | 5.00 | 1146.10 | 2.50 |
| 11 | 5.50 | 1164.10 | 1.55 |
| 12 | 6.00 | 1177.40 | 1.13 |
| 13 | 6.50 | 1188.70 | 0.95 |
| 14 | 7.00 | 1196.80 | 0.68 |
| 15 | 7.50 | 1203.60 | 0.56 |
| 16 | 8.00 | 1209.20 | 0.46 |
| 17 | 8.50 | 1214.10 | 0.40 |
| 18 | 9.00 | 1217.90 | 0.31 |
| 19 | 9.50 | 1221.80 | 0.32 |
| 20 | 10.00 | 1225.20 | 0.28 |
| 21 | 10.50 | 1228.00 | 0.23 |
| 22 | 11.00 | 1231.00 | 0.24 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 1231 - 2.310333 )(1)/(1) = +1.2287E+03 g/L Carbon
( 1231 - 2.310333 )(1)/(1)(12) = +1.0239E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 21:01:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.60 | 0.00 |
| 2 | 1.01 | 94.00 | 97.23 |
| 3 | 1.51 | 347.00 | 72.91 |
| 4 | 2.00 | 573.60 | 39.50 |
| 5 | 2.50 | 694.70 | 17.43 |
| 6 | 3.00 | 749.00 | 7.25 |
| 7 | 3.50 | 773.70 | 3.19 |
| 8 | 4.01 | 784.00 | 1.31 |
| 9 | 4.50 | 790.60 | 0.83 |
| 10 | 5.00 | 795.30 | 0.59 |
| 11 | 5.50 | 798.70 | 0.43 |
| 12 | 6.00 | 801.40 | 0.34 |
| 13 | 6.50 | 803.60 | 0.27 |
| 14 | 7.00 | 806.40 | 0.35 |
| 15 | 7.50 | 808.70 | 0.28 |
| 16 | 8.00 | 810.40 | 0.21 |
| 17 | 8.50 | 812.00 | 0.20 |
| 18 | 9.00 | 813.40 | 0.17 |
| 19 | 9.50 | 814.90 | 0.18 |
| 20 | 10.00 | 816.20 | 0.16 |
| 21 | 10.50 | 817.50 | 0.16 |
| 22 | 11.00 | 818.50 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 818.5 - 29.81199 )(1)/(1) = +7.887E+02 g/L Carbon
( 818.5 - 29.81199 )(1)/(1)(12) = +6.572E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000



.354/g = 2.23e-3

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:13:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 13.90 | 94.96 |
| 3 | 1.50 | 94.80 | 85.34 |
| 4 | 2.00 | 264.60 | 64.17 |
| 5 | 2.50 | 504.10 | 47.51 |
| 6 | 3.00 | 735.00 | 31.41 |
| 7 | 3.50 | 884.60 | 16.91 |
| 8 | 4.00 | 967.40 | 8.56 |
| 9 | 4.50 | 1016.30 | 4.81 |
| 10 | 5.00 | 1044.10 | 2.66 |
| 11 | 5.50 | 1060.80 | 1.57 |
| 12 | 6.00 | 1073.70 | 1.20 |
| 13 | 6.50 | 1083.60 | 0.91 |
| 14 | 7.00 | 1092.10 | 0.78 |
| 15 | 7.50 | 1099.60 | 0.68 |
| 16 | 8.00 | 1106.20 | 0.60 |
| 17 | 8.50 | 1111.50 | 0.48 |
| 18 | 9.00 | 1116.80 | 0.47 |
| 19 | 9.50 | 1121.40 | 0.41 |
| 20 | 10.00 | 1125.50 | 0.36 |
| 21 | 10.50 | 1128.80 | 0.29 |
| 22 | 11.00 | 1132.10 | 0.29 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 1132.1 - 2.309564 )(1)/(1) = +1.1298E+03 g/L Carbon
( 1132.1 - 2.309564 )(1)/(1)(12) = +9.4149E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:25:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.60 | 0.00 |
| 2 | 1.01 | 75.50 | 93.91 |
| 3 | 1.51 | 301.70 | 74.98 |
| 4 | 2.00 | 581.30 | 48.10 |
| 5 | 2.50 | 732.20 | 20.61 |
| 6 | 3.00 | 799.90 | 8.46 |
| 7 | 3.50 | 838.70 | 4.63 |
| 8 | 4.00 | 862.20 | 2.73 |
| 9 | 4.50 | 877.30 | 1.72 |
| 10 | 5.00 | 888.70 | 1.28 |
| 11 | 5.50 | 897.80 | 1.01 |
| 12 | 6.00 | 905.50 | 0.85 |
| 13 | 6.50 | 912.00 | 0.71 |
| 14 | 7.00 | 916.90 | 0.53 |
| 15 | 7.50 | 921.40 | 0.49 |
| 16 | 8.00 | 925.50 | 0.44 |
| 17 | 8.50 | 928.90 | 0.37 |
| 18 | 9.00 | 932.70 | 0.41 |
| 19 | 9.50 | 936.30 | 0.38 |
| 20 | 10.00 | 939.70 | 0.36 |
| 21 | 10.50 | 942.80 | 0.33 |
| 22 | 11.00 | 946.00 | 0.34 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 946 - 29.80206 )(1)/(1) = +9.162E+02 g/L Carbon
( 946 - 29.80206 )(1)/(1)(12) = +7.635E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.3012g = 3.04E3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:37:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.50 | 0.00 |
| 2 | 1.01 | 17.80 | 85.96 |
| 3 | 1.50 | 92.70 | 80.80 |
| 4 | 2.00 | 238.70 | 61.16 |
| 5 | 2.51 | 393.20 | 39.29 |
| 6 | 3.00 | 544.40 | 27.77 |
| 7 | 3.50 | 673.70 | 19.19 |
| 8 | 4.00 | 763.90 | 11.81 |
| 9 | 4.50 | 820.30 | 6.88 |
| 10 | 5.00 | 856.10 | 4.18 |
| 11 | 5.50 | 877.00 | 2.38 |
| 12 | 6.00 | 891.40 | 1.62 |
| 13 | 6.50 | 903.10 | 1.30 |
| 14 | 7.00 | 912.60 | 1.04 |
| 15 | 7.50 | 921.40 | 0.96 |
| 16 | 8.00 | 929.50 | 0.87 |
| 17 | 8.50 | 937.20 | 0.82 |
| 18 | 9.00 | 943.70 | 0.69 |
| 19 | 9.50 | 950.00 | 0.66 |
| 20 | 10.00 | 955.50 | 0.58 |
| 21 | 10.50 | 960.50 | 0.52 |
| 22 | 11.00 | 965.70 | 0.54 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 965.7 - 2.310128 )(1)/(1) = +9.634E+02 g/L Carbon
( 965.7 - 2.310128 )(1)/(1)(12) = +8.028E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-NS, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:50:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 6.70 | 0.00 |
| 2 | 1.01 | 101.00 | 93.37 |
| 3 | 1.50 | 332.80 | 69.65 |
| 4 | 2.00 | 583.10 | 42.93 |
| 5 | 2.50 | 718.80 | 18.88 |
| 6 | 3.00 | 783.70 | 8.28 |
| 7 | 3.50 | 822.50 | 4.72 |
| 8 | 4.00 | 845.80 | 2.75 |
| 9 | 4.50 | 861.40 | 1.81 |
| 10 | 5.00 | 873.20 | 1.35 |
| 11 | 5.50 | 882.70 | 1.08 |
| 12 | 6.00 | 890.40 | 0.86 |
| 13 | 6.50 | 897.20 | 0.76 |
| 14 | 7.00 | 903.50 | 0.70 |
| 15 | 7.50 | 908.50 | 0.55 |
| 16 | 8.00 | 913.60 | 0.56 |
| 17 | 8.50 | 918.00 | 0.48 |
| 18 | 9.00 | 921.90 | 0.42 |
| 19 | 9.50 | 925.50 | 0.39 |
| 20 | 10.00 | 929.50 | 0.43 |
| 21 | 10.50 | 932.50 | 0.32 |
| 22 | 11.00 | 935.60 | 0.33 |

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 935.6 - 29.80901 )(1)/(1) = +9.058E+02 g/L Carbon
( 935.6 - 29.80901 )(1)/(1)(12) = +7.548E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000



.2797g = 3.246 3

WHC-SD-WM-DP-145, REV. 1



# LABCORE Data Entry Template for Worklist# 2205

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod A-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 21.5 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00E3 | 2.99E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 3 | SAMPLE | S95T001419 | 0 | | TOC-02 | SOLID | N/A | 1.04E4 | | ug/g |
| 95000104 | BY-108 (R) | 4 | DUP | S95T001419 | 0 | | TOC-02 | SOLID | 1.04E4 | 1.26E4 | N/A | ug/g |
| 95000104 | BY-108 (R) | 5 | SAMPLE | S95T001420 | 0 | | TOC-02 | SOLID | N/A | 2.09E4 | | ug/g |
| 95000104 | BY-108 (R) | 6 | DUP | S95T001420 | 0 | | TOC-02 | SOLID | 2.09E4 | 2.07E4 | N/A | ug/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001427 | 0 | | TOC-02 | LIQUID | N/A | 2.71E3 | | ug/mL |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001427 | 0 | | TOC-02 | LIQUID | 2.71E3 | 2.72E3 | N/A | ug/mL |

## Final page for worklist # 2205

8-30-95
**Analyst Signature** **Date**

08/31/95
**Analyst Signature** **Date**

Reviewed RW Schroeder 9/15/95

*Data Entry Comments:* TIC data included in batch

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/30/95  Time: 17:19:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 2.00 | 100.00 |
| 3 | 1.51 | 2.60 | 23.08 |
| 4 | 2.00 | 3.20 | 18.75 |
| 5 | 2.50 | 3.50 | 8.57 |
| 6 | 3.00 | 3.80 | 7.89 |
| 7 | 3.50 | 4.00 | 5.00 |
| 8 | 4.00 | 4.20 | 4.76 |
| 9 | 4.50 | 4.40 | 4.55 |
| 10 | 5.00 | 4.60 | 4.35 |
| 11 | 5.50 | 4.80 | 4.17 |
| 12 | 6.00 | 5.00 | 4.00 |
| 13 | 6.50 | 5.20 | 3.85 |
| 14 | 7.00 | 5.40 | 3.70 |
| 15 | 7.50 | 5.50 | 1.82 |
| 16 | 8.00 | 5.80 | 5.17 |
| 17 | 8.50 | 5.90 | 1.69 |
| 18 | 9.00 | 6.10 | 3.28 |
| 19 | 9.50 | 6.30 | 3.17 |
| 20 | 10.00 | 6.50 | 3.08 |
| 21 | 10.50 | 6.60 | 1.52 |
| 22 | 11.00 | 6.80 | 2.94 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 689 TO 704.**

BLANK VALUE = 6.8 micrograms carbon
BLANK FACTOR = 6.8 / 11.00171 = +6.2E-01 ug/min Carbon

Sample Run By: 8-30-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 08/30/95  Time: 17:33:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.90 | 100.00 |
| 3 | 1.50 | 6.80 | 72.06 |
| 4 | 2.01 | 11.20 | 39.29 |
| 5 | 2.51 | 13.50 | 17.04 |
| 6 | 3.01 | 14.50 | 6.90 |
| 7 | 3.51 | 15.30 | 5.23 |
| 8 | 4.00 | 16.20 | 5.56 |
| 9 | 4.50 | 16.40 | 1.22 |
| 10 | 5.00 | 16.80 | 2.38 |
| 11 | 5.50 | 17.20 | 2.33 |
| 12 | 6.00 | 17.70 | 2.82 |
| 13 | 6.50 | 18.20 | 2.75 |
| 14 | 7.00 | 19.00 | 4.21 |
| 15 | 7.50 | 19.10 | 0.52 |
| 16 | 8.00 | 19.50 | 2.05 |
| 17 | 8.50 | 19.90 | 2.01 |
| 18 | 9.00 | 20.30 | 1.97 |
| 19 | 9.50 | 20.60 | 1.46 |
| 20 | 10.00 | 20.90 | 1.44 |
| 21 | 10.50 | 21.20 | 1.42 |
| 22 | 11.00 | 21.50 | 1.40 |

BLANK VALUE = 21.5 micrograms carbon
BLANK FACTOR = 21.5 / 10.99963 = +1.95E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/30/95 Time: 17:44:47

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 110.70 | 100.00 |
| 3 | 1.51 | 330.50 | 66.51 |
| 4 | 2.00 | 472.90 | 30.11 |
| 5 | 2.50 | 544.50 | 13.15 |
| 6 | 3.00 | 572.70 | 4.92 |
| 7 | 3.50 | 583.30 | 1.82 |
| 8 | 4.00 | 586.30 | 0.51 |
| 9 | 4.50 | 588.40 | 0.36 |
| 10 | 5.00 | 589.40 | 0.17 |
| 11 | 5.50 | 590.20 | 0.14 |
| 12 | 6.00 | 590.90 | 0.12 |
| 13 | 6.50 | 591.60 | 0.12 |
| 14 | 7.00 | 592.00 | 0.07 |
| 15 | 7.50 | 592.50 | 0.08 |
| 16 | 8.00 | 593.00 | 0.08 |
| 17 | 8.50 | 593.40 | 0.07 |
| 18 | 9.00 | 593.80 | 0.07 |
| 19 | 9.50 | 594.10 | 0.05 |
| 20 | 10.00 | 594.50 | 0.07 |
| 21 | 10.50 | 594.80 | 0.05 |
| 22 | 11.00 | 595.10 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 595.1 - 6.818789 )(1)/(1000) = +5.883E-01 g/L Carbon
( 595.1 - 6.818789 )(1)/(1000)(12) = +4.902E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 08/30/95  Time: 17:57:03

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 63.20 | 100.00 |
| 3 | 1.50 | 357.50 | 82.32 |
| 4 | 2.00 | 718.60 | 50.25 |
| 5 | 2.50 | 852.20 | 15.68 |
| 6 | 3.00 | 889.30 | 4.17 |
| 7 | 3.50 | 900.90 | 1.29 |
| 8 | 4.00 | 904.90 | 0.44 |
| 9 | 4.50 | 907.40 | 0.28 |
| 10 | 5.00 | 909.90 | 0.27 |
| 11 | 5.50 | 911.20 | 0.14 |
| 12 | 6.00 | 912.20 | 0.11 |
| 13 | 6.50 | 913.40 | 0.13 |
| 14 | 7.00 | 914.20 | 0.09 |
| 15 | 7.50 | 915.00 | 0.09 |
| 16 | 8.00 | 915.60 | 0.07 |
| 17 | 8.50 | 916.30 | 0.08 |
| 18 | 9.00 | 916.90 | 0.07 |
| 19 | 9.50 | 917.50 | 0.07 |
| 20 | 10.00 | 917.90 | 0.04 |
| 21 | 10.50 | 918.50 | 0.07 |
| 22 | 11.00 | 919.10 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 919.1 - 21.45119 )(1)/(300) = +2.992E+00 g/L Carbon
( 919.1 - 21.45119 )(1)/(300)(12) = +2.493E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:12:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 5.60 | 100.00 |
| 3 | 1.51 | 47.10 | 88.11 |
| 4 | 2.01 | 106.00 | 55.57 |
| 5 | 2.51 | 156.90 | 32.44 |
| 6 | 3.01 | 191.90 | 18.24 |
| 7 | 3.51 | 212.70 | 9.78 |
| 8 | 4.00 | 223.60 | 4.87 |
| 9 | 4.50 | 229.60 | 2.61 |
| 10 | 5.00 | 233.40 | 1.63 |
| 11 | 5.50 | 236.10 | 1.14 |
| 12 | 6.00 | 238.00 | 0.80 |
| 13 | 6.50 | 240.30 | 0.96 |
| 14 | 7.00 | 241.80 | 0.62 |
| 15 | 7.50 | 243.50 | 0.70 |
| 16 | 8.00 | 245.00 | 0.61 |
| 17 | 8.50 | 246.40 | 0.57 |
| 18 | 9.00 | 247.90 | 0.61 |
| 19 | 9.50 | 249.10 | 0.48 |
| 20 | 10.00 | 250.30 | 0.48 |
| 21 | 10.50 | 251.20 | 0.36 |
| 22 | 11.00 | 252.20 | 0.40 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 252.2 - 6.822043 )(1)/(1) = +2.454E+02 g/L Carbon
( 252.2 - 6.822043 )(1)/(1)(12) = +2.045E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
## TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:24:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 6.40 | 0.00 |
| 2 | 1.01 | 96.50 | 93.37 |
| 3 | 1.51 | 192.50 | 49.87 |
| 4 | 2.00 | 240.50 | 19.96 |
| 5 | 2.50 | 268.20 | 10.33 |
| 6 | 3.00 | 285.30 | 5.99 |
| 7 | 3.50 | 298.50 | 4.42 |
| 8 | 4.01 | 308.40 | 3.21 |
| 9 | 4.50 | 317.00 | 2.71 |
| 10 | 5.00 | 323.90 | 2.13 |
| 11 | 5.50 | 329.90 | 1.82 |
| 12 | 6.00 | 334.70 | 1.43 |
| 13 | 6.50 | 339.70 | 1.47 |
| 14 | 7.00 | 344.30 | 1.34 |
| 15 | 7.50 | 349.00 | 1.35 |
| 16 | 8.00 | 353.00 | 1.13 |
| 17 | 8.50 | 356.00 | 0.84 |
| 18 | 9.00 | 358.90 | 0.81 |
| 19 | 9.50 | 361.20 | 0.64 |
| 20 | 10.00 | 363.30 | 0.58 |
| 21 | 10.50 | 365.20 | 0.52 |
| 22 | 11.00 | 367.10 | 0.52 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 367.1 - 21.44976 )(1)/(1) = +3.457E+02 g/L Carbon
( 367.1 - 21.44976 )(1)/(1)(12) = +2.880E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000



.0331 g = 1.04%

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:37:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.50 | 0.00 |
| 2 | 1.01 | 18.70 | 86.63 |
| 3 | 1.50 | 94.70 | 80.25 |
| 4 | 2.00 | 215.30 | 56.01 |
| 5 | 2.50 | 316.70 | 32.02 |
| 6 | 3.00 | 385.50 | 17.85 |
| 7 | 3.50 | 425.40 | 9.38 |
| 8 | 4.00 | 445.60 | 4.53 |
| 9 | 4.50 | 456.00 | 2.28 |
| 10 | 5.00 | 462.20 | 1.34 |
| 11 | 5.50 | 466.00 | 0.82 |
| 12 | 6.00 | 469.30 | 0.70 |
| 13 | 6.50 | 472.60 | 0.70 |
| 14 | 7.00 | 476.10 | 0.74 |
| 15 | 7.50 | 478.40 | 0.48 |
| 16 | 8.00 | 480.60 | 0.46 |
| 17 | 8.50 | 483.00 | 0.50 |
| 18 | 9.00 | 484.60 | 0.33 |
| 19 | 9.50 | 486.50 | 0.39 |
| 20 | 10.00 | 488.20 | 0.35 |
| 21 | 10.50 | 489.80 | 0.33 |
| 22 | 11.00 | 491.30 | 0.31 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 491.3 - 6.819243 )(1)/(1) = +4.845E+02 g/L Carbon
( 491.3 - 6.819243 )(1)/(1)(12) = +4.037E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:50:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.90 | 0.00 |
| 2 | 1.01 | 43.00 | 95.58 |
| 3 | 1.50 | 160.30 | 73.18 |
| 4 | 2.00 | 284.30 | 43.62 |
| 5 | 2.50 | 374.20 | 24.02 |
| 6 | 3.00 | 437.10 | 14.39 |
| 7 | 3.50 | 481.80 | 9.28 |
| 8 | 4.00 | 517.70 | 6.93 |
| 9 | 4.50 | 545.30 | 5.06 |
| 10 | 5.00 | 567.40 | 3.89 |
| 11 | 5.50 | 585.80 | 3.14 |
| 12 | 6.00 | 601.10 | 2.55 |
| 13 | 6.50 | 614.20 | 2.13 |
| 14 | 7.00 | 625.70 | 1.84 |
| 15 | 7.50 | 636.10 | 1.63 |
| 16 | 8.00 | 644.80 | 1.35 |
| 17 | 8.50 | 653.00 | 1.26 |
| 18 | 9.00 | 660.00 | 1.06 |
| 19 | 9.50 | 666.00 | 0.90 |
| 20 | 10.00 | 672.00 | 0.89 |
| 21 | 10.50 | 677.30 | 0.78 |
| 22 | 11.00 | 682.20 | 0.72 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 682.2 - 21.44762 )(1)/(1) = +6.608E+02 g/L Carbon
( 682.2 - 21.44762 )(1)/(1)(12) = +5.506E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

696

.0526g = 1.26E4

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:08:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 3.80 | 100.00 |
| 3 | 1.51 | 46.30 | 91.79 |
| 4 | 2.00 | 128.70 | 64.02 |
| 5 | 2.50 | 225.10 | 42.83 |
| 6 | 3.00 | 299.50 | 24.84 |
| 7 | 3.50 | 338.70 | 11.57 |
| 8 | 4.00 | 358.30 | 5.47 |
| 9 | 4.50 | 368.60 | 2.79 |
| 10 | 5.00 | 374.60 | 1.60 |
| 11 | 5.50 | 379.00 | 1.16 |
| 12 | 6.00 | 382.70 | 0.97 |
| 13 | 6.50 | 386.20 | 0.91 |
| 14 | 7.00 | 388.40 | 0.57 |
| 15 | 7.50 | 391.20 | 0.72 |
| 16 | 8.00 | 392.90 | 0.43 |
| 17 | 8.50 | 395.00 | 0.53 |
| 18 | 9.00 | 396.80 | 0.45 |
| 19 | 9.50 | 398.70 | 0.48 |
| 20 | 10.00 | 400.20 | 0.37 |
| 21 | 10.50 | 401.30 | 0.27 |
| 22 | 11.00 | 402.80 | 0.37 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 402.8 - 6.819773 )(1)/(1) = +3.960E+02 g/L Carbon
( 402.8 - 6.819773 )(1)/(1)(12) = +3.300E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:21:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.40 | 0.00 |
| 2 | 1.01 | 15.70 | 91.08 |
| 3 | 1.50 | 165.70 | 90.53 |
| 4 | 2.00 | 403.80 | 58.96 |
| 5 | 2.50 | 646.20 | 37.51 |
| 6 | 3.01 | 819.50 | 21.15 |
| 7 | 3.51 | 938.40 | 12.67 |
| 8 | 4.01 | 1026.60 | 8.59 |
| 9 | 4.50 | 1096.20 | 6.35 |
| 10 | 5.00 | 1151.40 | 4.79 |
| 11 | 5.50 | 1197.90 | 3.88 |
| 12 | 6.00 | 1236.70 | 3.14 |
| 13 | 6.50 | 1267.80 | 2.45 |
| 14 | 7.00 | 1293.50 | 1.99 |
| 15 | 7.50 | 1316.10 | 1.72 |
| 16 | 8.00 | 1335.10 | 1.42 |
| 17 | 8.50 | 1353.00 | 1.32 |
| 18 | 9.00 | 1367.30 | 1.05 |
| 19 | 9.50 | 1380.90 | 0.98 |
| 20 | 10.00 | 1391.70 | 0.78 |
| 21 | 10.50 | 1401.90 | 0.73 |
| 22 | 11.00 | 1410.60 | 0.62 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 1410.6 - 21.45119 )(1)/(1) = +1.3891E+03 g/L Carbon
( 1410.6 - 21.45119 )(1)/(1)(12) = +1.1576E+02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

698

.066% = 2.09e⁻⁴

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:35:26

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 3.70 | 0.00 |
| 2 | 1.01 | 10.40 | 64.42 |
| 3 | 1.51 | 52.40 | 80.15 |
| 4 | 2.00 | 120.40 | 56.48 |
| 5 | 2.50 | 171.90 | 29.96 |
| 6 | 3.00 | 201.20 | 14.56 |
| 7 | 3.50 | 216.10 | 6.89 |
| 8 | 4.00 | 224.70 | 3.83 |
| 9 | 4.50 | 228.90 | 1.83 |
| 10 | 5.00 | 232.90 | 1.72 |
| 11 | 5.50 | 235.60 | 1.15 |
| 12 | 6.00 | 238.30 | 1.13 |
| 13 | 6.50 | 240.50 | 0.91 |
| 14 | 7.00 | 242.80 | 0.95 |
| 15 | 7.50 | 244.80 | 0.82 |
| 16 | 8.00 | 246.30 | 0.61 |
| 17 | 8.50 | 247.90 | 0.65 |
| 18 | 9.00 | 249.60 | 0.68 |
| 19 | 9.50 | 251.00 | 0.56 |
| 20 | 10.00 | 252.30 | 0.52 |
| 21 | 10.50 | 253.60 | 0.51 |
| 22 | 11.00 | 254.70 | 0.43 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 254.7 - 6.819319 )(1)/(1) = +2.479E+02 g/L Carbon
( 254.7 - 6.819319 )(1)/(1)(12) = +2.066E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:50:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 45.80 | 97.16 |
| 3 | 1.50 | 177.00 | 74.12 |
| 4 | 2.00 | 333.10 | 46.86 |
| 5 | 2.50 | 441.10 | 24.48 |
| 6 | 3.00 | 513.20 | 14.05 |
| 7 | 3.50 | 561.70 | 8.63 |
| 8 | 4.00 | 597.40 | 5.98 |
| 9 | 4.50 | 625.10 | 4.43 |
| 10 | 5.00 | 647.00 | 3.38 |
| 11 | 5.50 | 665.00 | 2.71 |
| 12 | 6.00 | 679.20 | 2.09 |
| 13 | 6.50 | 691.50 | 1.78 |
| 14 | 7.00 | 703.10 | 1.65 |
| 15 | 7.50 | 712.40 | 1.31 |
| 16 | 8.00 | 720.70 | 1.15 |
| 17 | 8.50 | 727.60 | 0.95 |
| 18 | 9.00 | 734.00 | 0.87 |
| 19 | 9.50 | 738.30 | 0.58 |
| 20 | 10.00 | 743.10 | 0.65 |
| 21 | 10.50 | 747.20 | 0.55 |
| 22 | 11.00 | 751.40 | 0.56 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 751.4 - 21.44548 )(1)/(1) = +7.300E+02 g/L Carbon
( 751.4 - 21.44548 )(1)/(1)(12) = +6.083E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.0352g = 2.07%

700

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:07:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.70 | 0.00 |
| 2 | 1.01 | 27.40 | 90.15 |
| 3 | 1.50 | 178.60 | 84.66 |
| 4 | 2.00 | 439.40 | 59.35 |
| 5 | 2.51 | 658.60 | 33.28 |
| 6 | 3.01 | 804.50 | 18.14 |
| 7 | 3.51 | 963.50 | 16.50 |
| 8 | 4.00 | 1074.20 | 10.31 |
| 9 | 4.50 | 1131.70 | 5.08 |
| 10 | 5.00 | 1165.00 | 2.86 |
| 11 | 5.50 | 1185.70 | 1.75 |
| 12 | 6.00 | 1200.00 | 1.19 |
| 13 | 6.50 | 1212.40 | 1.02 |
| 14 | 7.00 | 1222.00 | 0.79 |
| 15 | 7.50 | 1229.80 | 0.63 |
| 16 | 8.00 | 1236.90 | 0.57 |
| 17 | 8.50 | 1242.80 | 0.47 |
| 18 | 9.00 | 1247.50 | 0.38 |
| 19 | 9.50 | 1252.10 | 0.37 |
| 20 | 10.00 | 1256.40 | 0.34 |
| 21 | 10.50 | 1259.90 | 0.28 |
| 22 | 11.00 | 1263.10 | 0.25 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 1263.1 - 6.820378 )(1)/(1) = +1.2563E+03 g/L Carbon
( 1263.1 - 6.820378 )(1)/(1)(12) = +1.0469E+02 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:19:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 5.10 | 74.51 |
| 3 | 1.50 | 26.20 | 80.53 |
| 4 | 2.00 | 191.60 | 86.33 |
| 5 | 2.50 | 440.10 | 56.46 |
| 6 | 3.00 | 567.60 | 22.46 |
| 7 | 3.50 | 621.70 | 8.70 |
| 8 | 4.00 | 648.10 | 4.07 |
| 9 | 4.50 | 660.70 | 1.91 |
| 10 | 5.00 | 668.30 | 1.14 |
| 11 | 5.50 | 674.30 | 0.89 |
| 12 | 6.00 | 678.40 | 0.60 |
| 13 | 6.50 | 682.10 | 0.54 |
| 14 | 7.00 | 684.80 | 0.39 |
| 15 | 7.50 | 687.40 | 0.38 |
| 16 | 8.00 | 689.60 | 0.32 |
| 17 | 8.50 | 691.20 | 0.23 |
| 18 | 9.00 | 693.00 | 0.26 |
| 19 | 9.50 | 694.90 | 0.27 |
| 20 | 10.00 | 696.50 | 0.23 |
| 21 | 10.50 | 698.20 | 0.24 |
| 22 | 11.00 | 699.80 | 0.23 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 699.8 - 21.45119 )(1)/(1) = +6.783E+02 g/L Carbon
( 699.8 - 21.45119 )(1)/(1)(12) = +5.653E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

702

.250 mL = 2.7 $l^3$

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:31:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.10 | 0.00 |
| 2 | 1.01 | 10.70 | 89.72 |
| 3 | 1.50 | 81.50 | 86.87 |
| 4 | 2.00 | 265.80 | 69.34 |
| 5 | 2.50 | 545.70 | 51.29 |
| 6 | 3.00 | 801.10 | 31.88 |
| 7 | 3.50 | 979.80 | 18.24 |
| 8 | 4.00 | 1076.30 | 8.97 |
| 9 | 4.50 | 1128.40 | 4.62 |
| 10 | 5.00 | 1160.80 | 2.79 |
| 11 | 5.50 | 1182.50 | 1.84 |
| 12 | 6.00 | 1199.00 | 1.38 |
| 13 | 6.50 | 1212.50 | 1.11 |
| 14 | 7.00 | 1224.20 | 0.96 |
| 15 | 7.50 | 1233.40 | 0.75 |
| 16 | 8.00 | 1241.70 | 0.67 |
| 17 | 8.50 | 1249.00 | 0.58 |
| 18 | 9.00 | 1254.90 | 0.47 |
| 19 | 9.50 | 1260.50 | 0.44 |
| 20 | 10.00 | 1265.10 | 0.36 |
| 21 | 10.50 | 1269.30 | 0.33 |
| 22 | 11.00 | 1272.90 | 0.28 |

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
( 1272.9 - 6.819849 )(1)/(1) = +1.2661E+03 g/L Carbon
( 1272.9 - 6.819849 )(1)/(1)(12) = +1.0551E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:43:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.40 | 0.00 |
| 2 | 1.01 | 36.80 | 88.04 |
| 3 | 1.51 | 204.50 | 82.00 |
| 4 | 2.00 | 441.60 | 53.69 |
| 5 | 2.50 | 564.60 | 21.79 |
| 6 | 3.00 | 617.60 | 8.58 |
| 7 | 3.50 | 642.90 | 3.94 |
| 8 | 4.00 | 655.30 | 1.89 |
| 9 | 4.50 | 663.30 | 1.21 |
| 10 | 5.00 | 669.50 | 0.93 |
| 11 | 5.50 | 674.40 | 0.73 |
| 12 | 6.00 | 677.40 | 0.44 |
| 13 | 6.50 | 680.80 | 0.50 |
| 14 | 7.00 | 683.20 | 0.35 |
| 15 | 7.50 | 686.00 | 0.41 |
| 16 | 8.00 | 688.60 | 0.38 |
| 17 | 8.50 | 691.30 | 0.39 |
| 18 | 9.00 | 693.10 | 0.26 |
| 19 | 9.50 | 695.50 | 0.35 |
| 20 | 10.00 | 697.50 | 0.29 |
| 21 | 10.50 | 699.00 | 0.21 |
| 22 | 11.00 | 701.00 | 0.29 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 701 - 21.44929 )(1)/(1) = +6.796E+02 g/L Carbon
( 701 - 21.44929 )(1)/(1)(12) = +5.663E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

250 mL = 2.72E-3

# LABCORE Data Entry Template for Worklist# 2217

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod B-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK | | | | TOC-02 | SOLID | 1 | 21.2 | N/A | ug/g |
| | | 2 STD | | | | TOC-02 | SOLID | 3.00E3 | 2.89E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 3 SAMPLE | S95T001421 | 0 | | TOC-02 | SOLID | N/A | 5.67E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 4 DUP | S95T001421 | 0 | | TOC-02 | SOLID | 5.67E3 | 5.87E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 5 SPK | S95T001421 | 0 | | TOC-02 | SOLID | 100 | 122.4 | N/A | ug/g |
| 95000104 | BY-108 (R) | 6 SAMPLE | S95T001422 | 0 | | TOC-02 | SOLID | N/A | 3.50E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 7 DUP | S95T001422 | 0 | | TOC-02 | SOLID | 3.50E3 | 3.37E3 | N/A | ug/g |

## Final page for worklist # 2217

9.3.95
**Analyst Signature** **Date**

9-5-95
**Analyst Signature** **Date**

Reviewed RW Schrolder 9/7/95

Sample Sizes -
STD 1.0mL TIC std
0.300mL TOC std 16N12B

S95T001421 - 0.0401 g
S95T001421 dup - 0.0646g
S95T001421 spk - 0.0686g + .1mL 16N12B
S95T001422 - 0.0649 g
S95T001422 dup - 0.0705 g

*Data Entry Comments:*

TIC results included with data. RWS 9/7/95

RWS 9/7/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 01:37:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.10 | 100.00 |
| 3 | 1.51 | 0.30 | 66.67 |
| 4 | 2.01 | 0.60 | 50.00 |
| 5 | 2.51 | 0.70 | 14.29 |
| 6 | 3.01 | 0.80 | 12.50 |
| 7 | 3.51 | 1.00 | 20.00 |
| 8 | 4.01 | 1.00 | 0.00 |
| 9 | 4.50 | 1.20 | 16.67 |
| 10 | 5.00 | 1.30 | 7.69 |
| 11 | 5.50 | 1.30 | 0.00 |
| 12 | 6.00 | 1.40 | 7.14 |
| 13 | 6.50 | 1.50 | 6.67 |
| 14 | 7.00 | 1.60 | 6.25 |
| 15 | 7.50 | 1.70 | 5.88 |
| 16 | 8.00 | 1.80 | 5.56 |
| 17 | 8.50 | 1.90 | 5.26 |
| 18 | 9.00 | 1.90 | 0.00 |
| 19 | 9.50 | 2.10 | 9.52 |
| 20 | 10.00 | 2.10 | 0.00 |
| 21 | 10.50 | 2.20 | 4.55 |
| 22 | 11.00 | 2.30 | 4.35 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 706 TO 719.**

BLANK VALUE = 2.3 micrograms carbon
BLANK FACTOR = 2.3 / 11.00167 = +2.1E-01 ug/min Carbon

Sample Run By: KR MONTEITH 9-2-95 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 09/02/95  Time: 02:26:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.90 | 100.00 |
| 3 | 1.50 | 6.30 | 85.71 |
| 4 | 2.00 | 11.10 | 43.24 |
| 5 | 2.50 | 13.70 | 18.98 |
| 6 | 3.00 | 14.80 | 7.43 |
| 7 | 3.50 | 15.80 | 6.33 |
| 8 | 4.00 | 16.20 | 2.47 |
| 9 | 4.50 | 16.90 | 4.14 |
| 10 | 5.00 | 17.30 | 2.31 |
| 11 | 5.50 | 17.70 | 2.26 |
| 12 | 6.00 | 18.10 | 2.21 |
| 13 | 6.50 | 18.30 | 1.09 |
| 14 | 7.00 | 18.60 | 1.61 |
| 15 | 7.50 | 19.10 | 2.62 |
| 16 | 8.00 | 19.50 | 2.05 |
| 17 | 8.50 | 19.90 | 2.01 |
| 18 | 9.00 | 20.20 | 1.49 |
| 19 | 9.50 | 20.40 | 0.98 |
| 20 | 10.00 | 20.70 | 1.45 |
| 21 | 10.50 | 20.90 | 0.96 |
| 22 | 11.00 | 21.20 | 1.42 |

BLANK VALUE = 21.2 micrograms carbon
BLANK FACTOR = 21.2 / 11.00067 = +1.93E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/02/95 Time: 04:06:30

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 21.80 | 100.00 |
| 3 | 1.51 | 189.30 | 88.48 |
| 4 | 2.01 | 380.60 | 50.26 |
| 5 | 2.50 | 501.60 | 24.12 |
| 6 | 3.00 | 563.10 | 10.92 |
| 7 | 3.50 | 589.40 | 4.46 |
| 8 | 4.00 | 598.70 | 1.55 |
| 9 | 4.50 | 602.50 | 0.63 |
| 10 | 5.00 | 604.10 | 0.26 |
| 11 | 5.50 | 605.00 | 0.15 |
| 12 | 6.00 | 605.80 | 0.13 |
| 13 | 6.50 | 606.40 | 0.10 |
| 14 | 7.00 | 606.90 | 0.08 |
| 15 | 7.50 | 607.40 | 0.08 |
| 16 | 8.00 | 607.80 | 0.07 |
| 17 | 8.50 | 608.20 | 0.07 |
| 18 | 9.00 | 608.60 | 0.07 |
| 19 | 9.50 | 608.80 | 0.03 |
| 20 | 10.00 | 609.20 | 0.07 |
| 21 | 10.50 | 609.40 | 0.03 |
| 22 | 11.00 | 609.70 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 609.7 - 2.309753 )(1)/(1000) = +6.074E-01 g/L Carbon
( 609.7 - 2.309753 )(1)/(1000)(12) = +5.062E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/02/95 Time: 02:51:55

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 17.90 | 100.00 |
| 3 | 1.50 | 203.70 | 91.21 |
| 4 | 2.00 | 573.10 | 64.46 |
| 5 | 2.50 | 788.90 | 27.35 |
| 6 | 3.00 | 851.30 | 7.33 |
| 7 | 3.50 | 869.10 | 2.05 |
| 8 | 4.00 | 875.30 | 0.71 |
| 9 | 4.50 | 878.20 | 0.33 |
| 10 | 5.00 | 880.00 | 0.20 |
| 11 | 5.50 | 881.40 | 0.16 |
| 12 | 6.00 | 882.40 | 0.11 |
| 13 | 6.50 | 883.40 | 0.11 |
| 14 | 7.00 | 884.00 | 0.07 |
| 15 | 7.50 | 884.50 | 0.06 |
| 16 | 8.00 | 885.20 | 0.08 |
| 17 | 8.50 | 885.70 | 0.06 |
| 18 | 9.00 | 886.20 | 0.06 |
| 19 | 9.50 | 886.60 | 0.05 |
| 20 | 10.00 | 887.10 | 0.06 |
| 21 | 10.50 | 887.60 | 0.06 |
| 22 | 11.00 | 888.00 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 888 - 21.23289 )(1)/(300) = +2.889E+00 g/L Carbon
( 888 - 21.23289 )(1)/(300)(12) = +2.408E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:21:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 4.00 | 100.00 |
| 3 | 1.50 | 39.00 | 89.74 |
| 4 | 2.00 | 102.90 | 62.10 |
| 5 | 2.50 | 158.40 | 35.04 |
| 6 | 3.00 | 191.90 | 17.46 |
| 7 | 3.50 | 208.40 | 7.92 |
| 8 | 4.00 | 215.90 | 3.47 |
| 9 | 4.50 | 219.50 | 1.64 |
| 10 | 5.00 | 221.60 | 0.95 |
| 11 | 5.50 | 222.80 | 0.54 |
| 12 | 6.00 | 223.80 | 0.45 |
| 13 | 6.50 | 224.70 | 0.40 |
| 14 | 7.00 | 225.50 | 0.35 |
| 15 | 7.50 | 226.20 | 0.31 |
| 16 | 8.00 | 226.80 | 0.26 |
| 17 | 8.50 | 227.30 | 0.22 |
| 18 | 9.00 | 227.90 | 0.26 |
| 19 | 9.50 | 228.40 | 0.22 |
| 20 | 10.00 | 228.80 | 0.17 |
| 21 | 10.50 | 229.20 | 0.17 |
| 22 | 11.00 | 229.50 | 0.13 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 229.5 - 2.309965 )(1)/(1) = +2.272E+02 g/L Carbon
( 229.5 - 2.309965 )(1)/(1)(12) = +1.893E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:33:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 12.20 | 100.00 |
| 3 | 1.50 | 72.30 | 83.13 |
| 4 | 2.00 | 135.10 | 46.48 |
| 5 | 2.50 | 173.60 | 22.18 |
| 6 | 3.01 | 194.50 | 10.75 |
| 7 | 3.51 | 206.20 | 5.67 |
| 8 | 4.01 | 214.70 | 3.96 |
| 9 | 4.50 | 221.10 | 2.89 |
| 10 | 5.00 | 225.90 | 2.12 |
| 11 | 5.50 | 229.50 | 1.57 |
| 12 | 6.00 | 232.70 | 1.38 |
| 13 | 6.50 | 235.40 | 1.15 |
| 14 | 7.00 | 237.90 | 1.05 |
| 15 | 7.50 | 240.20 | 0.96 |
| 16 | 8.00 | 241.70 | 0.62 |
| 17 | 8.50 | 243.30 | 0.66 |
| 18 | 9.00 | 244.60 | 0.53 |
| 19 | 9.50 | 245.80 | 0.49 |
| 20 | 10.00 | 246.90 | 0.45 |
| 21 | 10.50 | 247.90 | 0.40 |
| 22 | 11.00 | 248.70 | 0.32 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 248.7 - 21.23135 )(1)/(1) = +2.275E+02 g/L Carbon
( 248.7 - 21.23135 )(1)/(1)(12) = +1.896E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

711

.0401g = 5.67E3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:45:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.50 | 0.00 |
| 2 | 1.00 | 12.30 | 95.93 |
| 3 | 1.50 | 75.90 | 83.79 |
| 4 | 2.00 | 185.40 | 59.06 |
| 5 | 2.50 | 272.40 | 31.94 |
| 6 | 3.00 | 322.20 | 15.46 |
| 7 | 3.50 | 344.30 | 6.42 |
| 8 | 4.00 | 355.00 | 3.01 |
| 9 | 4.50 | 360.20 | 1.44 |
| 10 | 5.00 | 363.30 | 0.85 |
| 11 | 5.50 | 365.60 | 0.63 |
| 12 | 6.00 | 367.30 | 0.46 |
| 13 | 6.50 | 368.60 | 0.35 |
| 14 | 7.00 | 369.80 | 0.32 |
| 15 | 7.50 | 371.00 | 0.32 |
| 16 | 8.00 | 372.00 | 0.27 |
| 17 | 8.50 | 372.90 | 0.24 |
| 18 | 9.00 | 373.70 | 0.21 |
| 19 | 9.50 | 374.50 | 0.21 |
| 20 | 10.00 | 375.20 | 0.19 |
| 21 | 10.50 | 375.80 | 0.16 |
| 22 | 11.00 | 376.50 | 0.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 376.5 - 2.309929 )(1)/(1) = +3.742E+02 g/L Carbon
( 376.5 - 2.309929 )(1)/(1)(12) = +3.118E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:58:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.50 | 0.00 |
| 2 | 1.00 | 25.50 | 94.12 |
| 3 | 1.50 | 116.80 | 78.17 |
| 4 | 2.00 | 212.70 | 45.09 |
| 5 | 2.50 | 271.10 | 21.54 |
| 6 | 3.00 | 303.20 | 10.59 |
| 7 | 3.50 | 323.10 | 6.16 |
| 8 | 4.00 | 336.60 | 4.01 |
| 9 | 4.50 | 347.70 | 3.19 |
| 10 | 5.00 | 356.20 | 2.39 |
| 11 | 5.50 | 363.10 | 1.90 |
| 12 | 6.00 | 368.80 | 1.55 |
| 13 | 6.50 | 374.50 | 1.52 |
| 14 | 7.00 | 378.90 | 1.16 |
| 15 | 7.50 | 382.90 | 1.04 |
| 16 | 8.00 | 386.50 | 0.93 |
| 17 | 8.50 | 389.50 | 0.77 |
| 18 | 9.00 | 392.20 | 0.69 |
| 19 | 9.50 | 394.40 | 0.56 |
| 20 | 10.00 | 396.90 | 0.63 |
| 21 | 10.50 | 399.00 | 0.53 |
| 22 | 11.00 | 400.70 | 0.42 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 400.7 - 21.23442 )(1)/(1) = +3.795E+02 g/L Carbon
( 400.7 - 21.23442 )(1)/(1)(12) = +3.162E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

713

.0646g = 5.87E3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 + SPK  Date: 09/02/95  Time: 05:10:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.40 | 0.00 |
| 2 | 1.01 | 17.40 | 91.95 |
| 3 | 1.51 | 169.30 | 89.72 |
| 4 | 2.01 | 384.60 | 55.98 |
| 5 | 2.51 | 544.20 | 29.33 |
| 6 | 3.00 | 640.20 | 15.00 |
| 7 | 3.50 | 693.40 | 7.67 |
| 8 | 4.00 | 720.40 | 3.75 |
| 9 | 4.50 | 732.70 | 1.68 |
| 10 | 5.00 | 739.60 | 0.93 |
| 11 | 5.50 | 743.80 | 0.56 |
| 12 | 6.00 | 747.10 | 0.44 |
| 13 | 6.50 | 749.50 | 0.32 |
| 14 | 7.00 | 752.00 | 0.33 |
| 15 | 7.50 | 753.90 | 0.25 |
| 16 | 8.00 | 755.70 | 0.24 |
| 17 | 8.50 | 757.20 | 0.20 |
| 18 | 9.00 | 758.60 | 0.18 |
| 19 | 9.50 | 759.90 | 0.17 |
| 20 | 10.00 | 761.10 | 0.16 |
| 21 | 10.50 | 762.10 | 0.13 |
| 22 | 11.00 | 763.20 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 763.2 - 2.310141 )(1)/(1) = +7.609E+02 g/L Carbon
( 763.2 - 2.310141 )(1)/(1)(12) = +6.341E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 + SPK  Date: 09/02/95  Time: 05:25:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.80 | 0.00 |
| 2 | 1.01 | 11.20 | 92.86 |
| 3 | 1.51 | 105.70 | 89.40 |
| 4 | 2.00 | 306.10 | 65.47 |
| 5 | 2.50 | 500.60 | 38.85 |
| 6 | 3.00 | 623.90 | 19.76 |
| 7 | 3.50 | 695.10 | 10.24 |
| 8 | 4.01 | 740.20 | 6.09 |
| 9 | 4.50 | 770.20 | 3.90 |
| 10 | 5.00 | 791.40 | 2.68 |
| 11 | 5.50 | 809.00 | 2.18 |
| 12 | 6.00 | 822.60 | 1.65 |
| 13 | 6.50 | 834.10 | 1.38 |
| 14 | 7.00 | 844.00 | 1.17 |
| 15 | 7.50 | 852.40 | 0.99 |
| 16 | 8.00 | 859.70 | 0.85 |
| 17 | 8.50 | 866.10 | 0.74 |
| 18 | 9.00 | 871.30 | 0.60 |
| 19 | 9.50 | 876.30 | 0.57 |
| 20 | 10.00 | 880.80 | 0.51 |
| 21 | 10.50 | 884.70 | 0.44 |
| 22 | 11.00 | 888.10 | 0.38 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 888.1 - 21.23289 )(1)/(1) = +8.669E+02 g/L Carbon
( 888.1 - 21.23289 )(1)/(1)(12) = +7.224E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

715

.0686g + .1mL 16N12B = 122.4% Rec

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 05:38:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.10 | 0.00 |
| 2 | 1.01 | 12.30 | 82.93 |
| 3 | 1.50 | 106.60 | 88.46 |
| 4 | 2.00 | 249.90 | 57.34 |
| 5 | 2.50 | 347.30 | 28.04 |
| 6 | 3.00 | 400.40 | 13.26 |
| 7 | 3.50 | 424.60 | 5.70 |
| 8 | 4.00 | 435.70 | 2.55 |
| 9 | 4.50 | 441.80 | 1.38 |
| 10 | 5.00 | 445.60 | 0.85 |
| 11 | 5.50 | 448.80 | 0.71 |
| 12 | 6.00 | 451.30 | 0.55 |
| 13 | 6.50 | 453.80 | 0.55 |
| 14 | 7.00 | 455.80 | 0.44 |
| 15 | 7.50 | 457.40 | 0.35 |
| 16 | 8.00 | 459.10 | 0.37 |
| 17 | 8.50 | 460.40 | 0.28 |
| 18 | 9.00 | 461.70 | 0.28 |
| 19 | 9.50 | 463.00 | 0.28 |
| 20 | 10.00 | 464.00 | 0.22 |
| 21 | 10.50 | 465.00 | 0.22 |
| 22 | 11.00 | 465.90 | 0.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 465.9 - 2.309763 )(1)/(1) = +4.636E+02 g/L Carbon
( 465.9 - 2.309763 )(1)/(1)(12) = +3.863E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 05:50:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.00 | 8.00 | 91.25 |
| 3 | 1.50 | 49.20 | 83.74 |
| 4 | 2.00 | 112.00 | 56.07 |
| 5 | 2.50 | 160.40 | 30.17 |
| 6 | 3.00 | 188.40 | 14.86 |
| 7 | 3.50 | 203.30 | 7.33 |
| 8 | 4.00 | 212.30 | 4.24 |
| 9 | 4.50 | 219.30 | 3.19 |
| 10 | 5.00 | 224.00 | 2.10 |
| 11 | 5.50 | 228.20 | 1.84 |
| 12 | 6.00 | 230.80 | 1.13 |
| 13 | 6.50 | 233.70 | 1.24 |
| 14 | 7.00 | 236.00 | 0.97 |
| 15 | 7.50 | 238.10 | 0.88 |
| 16 | 8.00 | 240.00 | 0.79 |
| 17 | 8.50 | 241.70 | 0.70 |
| 18 | 9.00 | 243.10 | 0.58 |
| 19 | 9.50 | 244.50 | 0.57 |
| 20 | 10.00 | 245.80 | 0.53 |
| 21 | 10.50 | 247.20 | 0.57 |
| 22 | 11.00 | 248.40 | 0.48 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 248.4 - 21.23129 )(1)/(1) = +2.272E+02 g/L Carbon
( 248.4 - 21.23129 )(1)/(1)(12) = +1.893E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.0649g = 3.50 E 3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 06:02:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.10 | 0.00 |
| 2 | 1.01 | 8.90 | 87.64 |
| 3 | 1.50 | 93.80 | 90.51 |
| 4 | 2.00 | 242.30 | 61.29 |
| 5 | 2.51 | 347.50 | 30.27 |
| 6 | 3.01 | 404.00 | 13.99 |
| 7 | 3.51 | 431.70 | 6.42 |
| 8 | 4.00 | 443.10 | 2.57 |
| 9 | 4.50 | 449.20 | 1.36 |
| 10 | 5.00 | 453.40 | 0.93 |
| 11 | 5.50 | 456.90 | 0.77 |
| 12 | 6.00 | 459.70 | 0.61 |
| 13 | 6.50 | 462.00 | 0.50 |
| 14 | 7.00 | 464.20 | 0.47 |
| 15 | 7.50 | 466.10 | 0.41 |
| 16 | 8.00 | 467.80 | 0.36 |
| 17 | 8.50 | 469.40 | 0.34 |
| 18 | 9.00 | 470.90 | 0.32 |
| 19 | 9.50 | 472.00 | 0.23 |
| 20 | 10.00 | 473.20 | 0.25 |
| 21 | 10.50 | 474.30 | 0.23 |
| 22 | 11.00 | 475.30 | 0.21 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 475.3 - 2.310314 )(1)/(1) = +4.730E+02 g/L Carbon
( 475.3 - 2.310314 )(1)/(1)(12) = +3.942E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 06:15:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.80 | 0.00 |
| 2 | 1.01 | 13.70 | 94.16 |
| 3 | 1.51 | 69.70 | 80.34 |
| 4 | 2.00 | 141.40 | 50.71 |
| 5 | 2.50 | 186.40 | 24.14 |
| 6 | 3.00 | 208.20 | 10.47 |
| 7 | 3.50 | 219.70 | 5.23 |
| 8 | 4.00 | 227.60 | 3.47 |
| 9 | 4.50 | 232.80 | 2.23 |
| 10 | 5.00 | 237.00 | 1.77 |
| 11 | 5.50 | 240.90 | 1.62 |
| 12 | 6.00 | 243.40 | 1.03 |
| 13 | 6.50 | 245.80 | 0.98 |
| 14 | 7.00 | 247.70 | 0.77 |
| 15 | 7.50 | 249.70 | 0.80 |
| 16 | 8.00 | 251.40 | 0.68 |
| 17 | 8.50 | 252.90 | 0.59 |
| 18 | 9.00 | 254.40 | 0.59 |
| 19 | 9.50 | 255.70 | 0.51 |
| 20 | 10.00 | 256.90 | 0.47 |
| 21 | 10.50 | 257.90 | 0.39 |
| 22 | 11.00 | 259.10 | 0.46 |

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 259.1 - 21.22617 )(1)/(1) = +2.379E+02 g/L Carbon
( 259.1 - 21.22617 )(1)/(1)(12) = +1.982E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000



.0705g = 3.37E3

# LABCORE Data Entry Template for Worklist# 2221

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod B-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 22.5 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00E3 | 2.93E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 3 | SAMPLE | S95T001396 | 0 | | TOC-02 | SOLID | N/A | 9.06E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 4 | DUP | S95T001396 | 0 | | TOC-02 | SOLID | 9.06E3 | 9.76E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 5 | SPK | S95T001396 | 0 | | TOC-02 | SOLID | 100 | 100 | N/A | ug/g |
| 95000104 | BY-108 (R) | 6 | SAMPLE | S95T001399 | 0 | | TOC-02 | SOLID | N/A | 5.50E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 7 | DUP | S95T001399 | 0 | | TOC-02 | SOLID | 5.50E3 | 6.03E3 | N/A | ug/g |
| 95000104 | BY-108 (R) | 8 | SAMPLE | S95T001404 | 0 | | TOC-02 | SOLID | N/A | 3.60E3 | 40.0 | ug/g |
| 95000104 | BY-108 (R) | 9 | DUP | S95T001404 | 0 | | TOC-02 | SOLID | 3.60E3 | 3.62E3 | N/A | ug/g |

## Final page for worklist # 2221

9-3-95
**Analyst Signature** **Date**

9-2-95
**Analyst Signature** **Date**

Reviewed RW Schroeder 9/7/95

Sample Sizes
STD 1.0 mL TIC std
0.300 mL TOC std 16N12B

S95T001396 - 0.0625g
S95T001396 dup - 0.0582g
S95T001396 SPK - 0.0551 + 0.100 mL 16N12B
S95T001399 - 0.0831g
S95T001399 dup - 0.0770g
S95T001404 - 0.0771 g
S95T001404 - 0.0759g

*Data Entry Comments:* TIC data included. RWS 9/7/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 09/02/95  Time: 23:33:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.40 | 75.00 |
| 3 | 1.51 | 0.70 | 42.86 |
| 4 | 2.01 | 1.20 | 41.67 |
| 5 | 2.51 | 1.30 | 7.69 |
| 6 | 3.00 | 1.60 | 18.75 |
| 7 | 3.50 | 1.90 | 15.79 |
| 8 | 4.00 | 2.10 | 9.52 |
| 9 | 4.50 | 2.40 | 12.50 |
| 10 | 5.00 | 2.40 | 0.00 |
| 11 | 5.50 | 2.60 | 7.69 |
| 12 | 6.00 | 3.10 | 16.13 |
| 13 | 6.50 | 3.10 | 0.00 |
| 14 | 7.00 | 3.30 | 6.06 |
| 15 | 7.50 | 3.60 | 8.33 |
| 16 | 8.00 | 3.70 | 2.70 |
| 17 | 8.50 | 3.90 | 5.13 |
| 18 | 9.00 | 4.20 | 7.14 |
| 19 | 9.50 | 4.40 | 4.55 |
| 20 | 10.00 | 4.60 | 4.35 |
| 21 | 10.50 | 4.90 | 6.12 |
| 22 | 11.00 | 5.10 | 3.92 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 721 TO 738.**

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 11.00073 = +4.6E-01 ug/min Carbon

Sample Run By: 9-3-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 23:49:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 2.80 | 92.86 |
| 3 | 1.50 | 7.80 | 64.10 |
| 4 | 2.00 | 10.40 | 25.00 |
| 5 | 2.50 | 13.30 | 21.80 |
| 6 | 3.01 | 14.80 | 10.14 |
| 7 | 3.51 | 15.60 | 5.13 |
| 8 | 4.00 | 16.00 | 2.50 |
| 9 | 4.50 | 16.80 | 4.76 |
| 10 | 5.00 | 17.40 | 3.45 |
| 11 | 5.50 | 18.10 | 3.87 |
| 12 | 6.00 | 19.10 | 5.24 |
| 13 | 6.50 | 19.10 | 0.00 |
| 14 | 7.00 | 19.40 | 1.55 |
| 15 | 7.50 | 20.00 | 3.00 |
| 16 | 8.00 | 20.30 | 1.48 |
| 17 | 8.50 | 20.70 | 1.93 |
| 18 | 9.00 | 21.10 | 1.90 |
| 19 | 9.50 | 21.40 | 1.40 |
| 20 | 10.00 | 21.90 | 2.28 |
| 21 | 10.50 | 22.10 | 0.90 |
| 22 | 11.00 | 22.50 | 1.78 |

BLANK VALUE = 22.5 micrograms carbon
BLANK FACTOR = 22.5 / 10.99963 = +2.05E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 09/03/95  Time: 01:12:20

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 106.60 | 100.00 |
| 3 | 1.51 | 237.00 | 55.02 |
| 4 | 2.00 | 404.20 | 41.37 |
| 5 | 2.50 | 534.80 | 24.42 |
| 6 | 3.00 | 567.30 | 5.73 |
| 7 | 3.50 | 588.60 | 3.62 |
| 8 | 4.00 | 593.10 | 0.76 |
| 9 | 4.50 | 595.90 | 0.47 |
| 10 | 5.00 | 597.50 | 0.27 |
| 11 | 5.50 | 598.80 | 0.22 |
| 12 | 6.00 | 599.70 | 0.15 |
| 13 | 6.50 | 600.40 | 0.12 |
| 14 | 7.00 | 600.90 | 0.08 |
| 15 | 7.50 | 601.50 | 0.10 |
| 16 | 8.00 | 601.80 | 0.05 |
| 17 | 8.50 | 602.00 | 0.03 |
| 18 | 9.00 | 602.90 | 0.15 |
| 19 | 9.50 | 602.90 | 0.00 |
| 20 | 10.00 | 603.30 | 0.07 |
| 21 | 10.50 | 603.40 | 0.02 |
| 22 | 11.00 | 603.70 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 603.7 - 5.059463 )(1)/(1000) = +5.986E-01 g/L Carbon
( 603.7 - 5.059463 )(1)/(1000)(12) = +4.989E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/03/95 Time: 01:24:21

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 22.60 | 98.67 |
| 3 | 1.50 | 188.50 | 88.01 |
| 4 | 2.00 | 509.00 | 62.97 |
| 5 | 2.50 | 777.10 | 34.50 |
| 6 | 3.00 | 855.60 | 9.17 |
| 7 | 3.50 | 880.60 | 2.84 |
| 8 | 4.00 | 887.60 | 0.79 |
| 9 | 4.50 | 891.70 | 0.46 |
| 10 | 5.00 | 893.30 | 0.18 |
| 11 | 5.50 | 894.70 | 0.16 |
| 12 | 6.00 | 895.70 | 0.11 |
| 13 | 6.50 | 897.10 | 0.16 |
| 14 | 7.00 | 897.10 | 0.00 |
| 15 | 7.50 | 898.20 | 0.12 |
| 16 | 8.00 | 899.00 | 0.09 |
| 17 | 8.50 | 899.30 | 0.03 |
| 18 | 9.00 | 900.10 | 0.09 |
| 19 | 9.50 | 900.60 | 0.06 |
| 20 | 10.00 | 901.10 | 0.06 |
| 21 | 10.50 | 901.80 | 0.08 |
| 22 | 11.00 | 901.90 | 0.01 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 901.9 - 22.54966 )(1)/(300) = +2.931E+00 g/L Carbon
( 901.9 - 22.54966 )(1)/(300)(12) = +2.443E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 01:36:28

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 5.00 | 86.00 |
| 3 | 1.51 | 27.90 | 82.08 |
| 4 | 2.01 | 73.30 | 61.94 |
| 5 | 2.51 | 117.00 | 37.35 |
| 6 | 3.01 | 149.60 | 21.79 |
| 7 | 3.51 | 174.40 | 14.22 |
| 8 | 4.01 | 193.80 | 10.01 |
| 9 | 4.50 | 198.70 | 2.47 |
| 10 | 5.00 | 203.00 | 2.12 |
| 11 | 5.50 | 206.40 | 1.65 |
| 12 | 6.00 | 208.20 | 0.86 |
| 13 | 6.50 | 211.10 | 1.37 |
| 14 | 7.00 | 212.90 | 0.85 |
| 15 | 7.50 | 214.50 | 0.75 |
| 16 | 8.00 | 216.30 | 0.83 |
| 17 | 8.50 | 217.30 | 0.46 |
| 18 | 9.00 | 218.80 | 0.69 |
| 19 | 9.50 | 219.80 | 0.45 |
| 20 | 10.00 | 220.90 | 0.50 |
| 21 | 10.50 | 222.10 | 0.54 |
| 22 | 11.00 | 222.80 | 0.31 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 222.8 - 5.060688 )(1)/(1) = +2.177E+02 g/L Carbon
( 222.8 - 5.060688 )(1)/(1)(12) = +1.814E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 01:48:27

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.70 | 0.00 |
| 2 | 1.01 | 88.30 | 98.07 |
| 3 | 1.50 | 310.30 | 71.54 |
| 4 | 2.00 | 430.90 | 27.99 |
| 5 | 2.50 | 486.70 | 11.46 |
| 6 | 3.00 | 520.30 | 6.46 |
| 7 | 3.50 | 533.50 | 2.47 |
| 8 | 4.00 | 543.60 | 1.86 |
| 9 | 4.50 | 550.50 | 1.25 |
| 10 | 5.00 | 557.50 | 1.26 |
| 11 | 5.50 | 561.00 | 0.62 |
| 12 | 6.00 | 565.30 | 0.76 |
| 13 | 6.50 | 569.80 | 0.79 |
| 14 | 7.00 | 572.70 | 0.51 |
| 15 | 7.50 | 574.90 | 0.38 |
| 16 | 8.00 | 577.50 | 0.45 |
| 17 | 8.50 | 581.00 | 0.60 |
| 18 | 9.00 | 582.40 | 0.24 |
| 19 | 9.50 | 584.10 | 0.29 |
| 20 | 10.00 | 587.10 | 0.51 |
| 21 | 10.50 | 587.60 | 0.09 |
| 22 | 11.00 | 588.80 | 0.20 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 588.8 - 22.54762 )(1)/(1) = +5.663E+02 g/L Carbon
( 588.8 - 22.54762 )(1)/(1)(12) = +4.719E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

726

.0625g = 9.66E3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 02:00:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.30 | 0.00 |
| 2 | 1.00 | 7.60 | 69.74 |
| 3 | 1.50 | 39.10 | 80.56 |
| 4 | 2.00 | 94.30 | 58.54 |
| 5 | 2.50 | 148.50 | 36.50 |
| 6 | 3.00 | 186.20 | 20.25 |
| 7 | 3.50 | 207.70 | 10.35 |
| 8 | 4.00 | 218.80 | 5.07 |
| 9 | 4.50 | 225.20 | 2.84 |
| 10 | 5.00 | 229.30 | 1.79 |
| 11 | 5.50 | 231.90 | 1.12 |
| 12 | 6.00 | 234.70 | 1.19 |
| 13 | 6.50 | 236.60 | 0.80 |
| 14 | 7.00 | 238.40 | 0.76 |
| 15 | 7.50 | 240.10 | 0.71 |
| 16 | 8.00 | 241.90 | 0.74 |
| 17 | 8.50 | 243.20 | 0.53 |
| 18 | 9.00 | 244.60 | 0.57 |
| 19 | 9.50 | 245.50 | 0.37 |
| 20 | 10.00 | 246.70 | 0.49 |
| 21 | 10.50 | 247.80 | 0.44 |
| 22 | 11.00 | 248.50 | 0.28 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 248.5 - 5.059003 )(1)/(1) = +2.434E+02 g/L Carbon
( 248.5 - 5.059003 )(1)/(1)(12) = +2.029E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 02:12:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.90 | 0.00 |
| 2 | 1.01 | 96.50 | 99.07 |
| 3 | 1.51 | 279.00 | 65.41 |
| 4 | 2.00 | 401.70 | 30.55 |
| 5 | 2.50 | 475.50 | 15.52 |
| 6 | 3.00 | 514.40 | 7.56 |
| 7 | 3.50 | 533.00 | 3.49 |
| 8 | 4.00 | 545.70 | 2.33 |
| 9 | 4.50 | 554.40 | 1.57 |
| 10 | 5.00 | 560.70 | 1.12 |
| 11 | 5.50 | 565.70 | 0.88 |
| 12 | 6.00 | 569.50 | 0.67 |
| 13 | 6.50 | 573.10 | 0.63 |
| 14 | 7.00 | 576.10 | 0.52 |
| 15 | 7.50 | 578.70 | 0.45 |
| 16 | 8.00 | 581.00 | 0.40 |
| 17 | 8.50 | 582.90 | 0.33 |
| 18 | 9.00 | 584.80 | 0.32 |
| 19 | 9.50 | 586.50 | 0.29 |
| 20 | 10.00 | 587.90 | 0.24 |
| 21 | 10.50 | 589.30 | 0.24 |
| 22 | 11.00 | 590.40 | 0.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 590.4 - 22.54762 )(1)/(1) = +5.679E+02 g/L Carbon
( 590.4 - 22.54762 )(1)/(1)(12) = +4.732E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

728

.0582g = 9.76e3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 + SPK  Date: 09/03/95  Time: 02:24:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.90 | 0.00 |
| 2 | 1.01 | 32.20 | 94.10 |
| 3 | 1.51 | 332.90 | 90.33 |
| 4 | 2.00 | 650.80 | 48.85 |
| 5 | 2.50 | 863.60 | 24.64 |
| 6 | 3.01 | 976.80 | 11.59 |
| 7 | 3.51 | 1034.50 | 5.58 |
| 8 | 4.00 | 1061.40 | 2.53 |
| 9 | 4.50 | 1072.70 | 1.05 |
| 10 | 5.00 | 1078.50 | 0.54 |
| 11 | 5.50 | 1082.10 | 0.33 |
| 12 | 6.00 | 1085.00 | 0.27 |
| 13 | 6.50 | 1087.30 | 0.21 |
| 14 | 7.00 | 1089.40 | 0.19 |
| 15 | 7.50 | 1091.50 | 0.19 |
| 16 | 8.00 | 1092.90 | 0.13 |
| 17 | 8.50 | 1094.40 | 0.14 |
| 18 | 9.00 | 1095.70 | 0.12 |
| 19 | 9.50 | 1097.00 | 0.12 |
| 20 | 10.00 | 1098.20 | 0.11 |
| 21 | 10.50 | 1099.20 | 0.09 |
| 22 | 11.00 | 1100.30 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 1100.3 - 5.060309 )(1)/(1) = +1.0952E+03 g/L Carbon
( 1100.3 - 5.060309 )(1)/(1)(12) = +9.1270E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-165, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 + SPK  Date: 09/03/95  Time: 02:38:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.40 | 0.00 |
| 2 | 1.01 | 114.30 | 98.78 |
| 3 | 1.50 | 354.30 | 67.74 |
| 4 | 2.00 | 574.30 | 38.31 |
| 5 | 2.50 | 695.60 | 17.44 |
| 6 | 3.00 | 751.00 | 7.38 |
| 7 | 3.50 | 773.20 | 2.87 |
| 8 | 4.00 | 785.00 | 1.50 |
| 9 | 4.50 | 791.40 | 0.81 |
| 10 | 5.00 | 796.50 | 0.64 |
| 11 | 5.50 | 799.90 | 0.43 |
| 12 | 6.00 | 803.10 | 0.40 |
| 13 | 6.50 | 805.60 | 0.31 |
| 14 | 7.00 | 807.80 | 0.27 |
| 15 | 7.50 | 809.90 | 0.26 |
| 16 | 8.00 | 811.40 | 0.18 |
| 17 | 8.50 | 813.00 | 0.20 |
| 18 | 9.00 | 814.40 | 0.17 |
| 19 | 9.50 | 815.70 | 0.16 |
| 20 | 10.00 | 816.70 | 0.12 |
| 21 | 10.50 | 817.80 | 0.13 |
| 22 | 11.00 | 818.80 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 818.8 - 22.54934 )(1)/(1) = +7.963E+02 g/L Carbon
( 818.8 - 22.54934 )(1)/(1)(12) = +6.635E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

730

.0551 + .100mL 16N12B = 100.0

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 02:50:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 14.90 | 95.30 |
| 3 | 1.50 | 257.10 | 94.20 |
| 4 | 2.00 | 713.20 | 63.95 |
| 5 | 2.50 | 1039.80 | 31.41 |
| 6 | 3.00 | 1195.10 | 12.99 |
| 7 | 3.50 | 1262.50 | 5.34 |
| 8 | 4.00 | 1292.40 | 2.31 |
| 9 | 4.50 | 1303.90 | 0.88 |
| 10 | 5.00 | 1310.50 | 0.50 |
| 11 | 5.50 | 1314.90 | 0.33 |
| 12 | 6.00 | 1318.50 | 0.27 |
| 13 | 6.50 | 1321.60 | 0.23 |
| 14 | 7.00 | 1324.00 | 0.18 |
| 15 | 7.50 | 1326.50 | 0.19 |
| 16 | 8.00 | 1328.20 | 0.13 |
| 17 | 8.50 | 1329.90 | 0.13 |
| 18 | 9.00 | 1331.60 | 0.13 |
| 19 | 9.50 | 1333.10 | 0.11 |
| 20 | 10.00 | 1334.40 | 0.10 |
| 21 | 10.50 | 1335.70 | 0.10 |
| 22 | 11.00 | 1336.70 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 1336.7 - 5.059839 )(1)/(1) = +1.3316E+03 g/L Carbon
( 1336.7 - 5.059839 )(1)/(1)(12) = +1.1097E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:01:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 3.10 | 0.00 |
| 2 | 1.01 | 120.00 | 97.42 |
| 3 | 1.51 | 292.90 | 59.03 |
| 4 | 2.01 | 387.80 | 24.47 |
| 5 | 2.51 | 433.40 | 10.52 |
| 6 | 3.00 | 449.80 | 3.65 |
| 7 | 3.50 | 457.10 | 1.60 |
| 8 | 4.00 | 461.10 | 0.87 |
| 9 | 4.50 | 464.30 | 0.69 |
| 10 | 5.00 | 466.70 | 0.51 |
| 11 | 5.50 | 468.50 | 0.38 |
| 12 | 6.00 | 470.20 | 0.36 |
| 13 | 6.50 | 471.70 | 0.32 |
| 14 | 7.00 | 472.80 | 0.23 |
| 15 | 7.50 | 474.00 | 0.25 |
| 16 | 8.00 | 474.80 | 0.17 |
| 17 | 8.50 | 475.90 | 0.23 |
| 18 | 9.00 | 476.70 | 0.17 |
| 19 | 9.50 | 477.50 | 0.17 |
| 20 | 10.00 | 478.30 | 0.17 |
| 21 | 10.50 | 479.10 | 0.17 |
| 22 | 11.00 | 479.90 | 0.17 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 479.9 - 22.54966 )(1)/(1) = +4.574E+02 g/L Carbon
( 479.9 - 22.54966 )(1)/(1)(12) = +3.811E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

732

.0831 g = ~~9.11E3~~ 5.50E3
9-3-95

WHC-SD-WM-DP-145, REV 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:15:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 14.50 | 100.00 |
| 3 | 1.50 | 231.70 | 93.74 |
| 4 | 2.00 | 537.40 | 56.89 |
| 5 | 2.50 | 714.10 | 24.74 |
| 6 | 3.00 | 812.20 | 12.08 |
| 7 | 3.50 | 864.80 | 6.08 |
| 8 | 4.00 | 888.50 | 2.67 |
| 9 | 4.50 | 898.90 | 1.16 |
| 10 | 5.00 | 904.30 | 0.60 |
| 11 | 5.50 | 908.40 | 0.45 |
| 12 | 6.00 | 911.50 | 0.34 |
| 13 | 6.50 | 914.00 | 0.27 |
| 14 | 7.00 | 916.40 | 0.26 |
| 15 | 7.50 | 918.40 | 0.22 |
| 16 | 8.00 | 920.20 | 0.20 |
| 17 | 8.50 | 921.70 | 0.16 |
| 18 | 9.00 | 923.10 | 0.15 |
| 19 | 9.50 | 924.30 | 0.13 |
| 20 | 10.00 | 925.60 | 0.14 |
| 21 | 10.50 | 926.70 | 0.12 |
| 22 | 11.00 | 927.50 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 927.5 - 5.05946 )(1)/(1) = +9.224E+02 g/L Carbon
( 927.5 - 5.05946 )(1)/(1)(12) = +7.687E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:31:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 87.20 | 99.20 |
| 3 | 1.50 | 262.30 | 66.76 |
| 4 | 2.00 | 374.20 | 29.90 |
| 5 | 2.50 | 430.70 | 13.12 |
| 6 | 3.00 | 453.20 | 4.96 |
| 7 | 3.50 | 461.70 | 1.84 |
| 8 | 4.00 | 466.40 | 1.01 |
| 9 | 4.50 | 469.80 | 0.72 |
| 10 | 5.00 | 472.30 | 0.53 |
| 11 | 5.50 | 474.40 | 0.44 |
| 12 | 6.00 | 476.20 | 0.38 |
| 13 | 6.50 | 477.70 | 0.31 |
| 14 | 7.00 | 479.00 | 0.27 |
| 15 | 7.50 | 480.20 | 0.25 |
| 16 | 8.00 | 481.30 | 0.23 |
| 17 | 8.50 | 482.30 | 0.21 |
| 18 | 9.00 | 483.20 | 0.19 |
| 19 | 9.50 | 484.20 | 0.21 |
| 20 | 10.00 | 485.30 | 0.23 |
| 21 | 10.50 | 486.00 | 0.14 |
| 22 | 11.00 | 486.80 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 486.8 - 22.55138 )(1)/(1) = +4.642E+02 g/L Carbon
( 486.8 - 22.55138 )(1)/(1)(12) = +3.869E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

734

.0770g = 6.03E3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 04:43:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 29.90 | 100.00 |
| 3 | 1.50 | 288.40 | 89.63 |
| 4 | 2.00 | 572.20 | 49.60 |
| 5 | 2.50 | 749.40 | 23.65 |
| 6 | 3.00 | 843.10 | 11.11 |
| 7 | 3.50 | 894.90 | 5.79 |
| 8 | 4.00 | 917.70 | 2.48 |
| 9 | 4.50 | 927.40 | 1.05 |
| 10 | 5.00 | 932.80 | 0.58 |
| 11 | 5.50 | 936.70 | 0.42 |
| 12 | 6.00 | 939.50 | 0.30 |
| 13 | 6.50 | 942.10 | 0.28 |
| 14 | 7.00 | 944.20 | 0.22 |
| 15 | 7.50 | 946.30 | 0.22 |
| 16 | 8.00 | 947.90 | 0.17 |
| 17 | 8.50 | 949.50 | 0.17 |
| 18 | 9.00 | 950.90 | 0.15 |
| 19 | 9.50 | 952.30 | 0.15 |
| 20 | 10.00 | 953.30 | 0.10 |
| 21 | 10.50 | 954.40 | 0.12 |
| 22 | 11.00 | 955.50 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 955.5 - 5.05993 )(1)/(1) = +9.504E+02 g/L Carbon
( 955.5 - 5.05993 )(1)/(1)(12) = +7.920E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 04:54:57

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.00 | 0.00 |
| 2 | 1.01 | 57.50 | 98.26 |
| 3 | 1.51 | 165.60 | 65.28 |
| 4 | 2.00 | 234.90 | 29.50 |
| 5 | 2.51 | 261.60 | 10.21 |
| 6 | 3.00 | 277.20 | 5.63 |
| 7 | 3.50 | 282.80 | 1.98 |
| 8 | 4.00 | 285.70 | 1.02 |
| 9 | 4.50 | 288.00 | 0.80 |
| 10 | 5.00 | 289.60 | 0.55 |
| 11 | 5.50 | 291.10 | 0.52 |
| 12 | 6.00 | 292.40 | 0.44 |
| 13 | 6.50 | 293.40 | 0.34 |
| 14 | 7.00 | 294.40 | 0.34 |
| 15 | 7.50 | 295.40 | 0.34 |
| 16 | 8.00 | 296.00 | 0.20 |
| 17 | 8.50 | 296.80 | 0.27 |
| 18 | 9.00 | 297.60 | 0.27 |
| 19 | 9.50 | 298.10 | 0.17 |
| 20 | 10.00 | 298.60 | 0.17 |
| 21 | 10.50 | 299.40 | 0.27 |
| 22 | 11.00 | 300.20 | 0.27 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 300.2 - 22.55138 )(1)/(1) = +2.776E+02 g/L Carbon
( 300.2 - 22.55138 )(1)/(1)(12) = +2.314E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.077/g = 3.60E3

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 05:06:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.50 | 0.00 |
| 2 | 1.01 | 19.20 | 97.40 |
| 3 | 1.51 | 253.70 | 92.43 |
| 4 | 2.00 | 526.80 | 51.84 |
| 5 | 2.50 | 712.20 | 26.03 |
| 6 | 3.00 | 826.60 | 13.84 |
| 7 | 3.50 | 898.80 | 8.03 |
| 8 | 4.00 | 939.30 | 4.31 |
| 9 | 4.50 | 959.40 | 2.10 |
| 10 | 5.00 | 969.20 | 1.01 |
| 11 | 5.50 | 974.80 | 0.57 |
| 12 | 6.00 | 978.40 | 0.37 |
| 13 | 6.50 | 981.30 | 0.30 |
| 14 | 7.00 | 983.90 | 0.26 |
| 15 | 7.50 | 985.90 | 0.20 |
| 16 | 8.00 | 987.80 | 0.19 |
| 17 | 8.50 | 989.60 | 0.18 |
| 18 | 9.00 | 991.40 | 0.18 |
| 19 | 9.50 | 992.90 | 0.15 |
| 20 | 10.00 | 994.30 | 0.14 |
| 21 | 10.50 | 995.60 | 0.13 |
| 22 | 11.00 | 996.80 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
( 996.8 - 5.059467 )(1)/(1) = +9.917E+02 g/L Carbon
( 996.8 - 5.059467 )(1)/(1)(12) = +8.265E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 05:19:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.10 | 0.00 |
| 2 | 1.01 | 66.80 | 96.86 |
| 3 | 1.51 | 163.90 | 59.24 |
| 4 | 2.00 | 227.10 | 27.83 |
| 5 | 2.50 | 258.20 | 12.04 |
| 6 | 3.00 | 270.60 | 4.58 |
| 7 | 3.50 | 276.50 | 2.13 |
| 8 | 4.00 | 280.20 | 1.32 |
| 9 | 4.50 | 282.80 | 0.92 |
| 10 | 5.00 | 284.90 | 0.74 |
| 11 | 5.50 | 286.50 | 0.56 |
| 12 | 6.00 | 287.90 | 0.49 |
| 13 | 6.50 | 289.30 | 0.48 |
| 14 | 7.00 | 290.50 | 0.41 |
| 15 | 7.50 | 291.40 | 0.31 |
| 16 | 8.00 | 292.30 | 0.31 |
| 17 | 8.50 | 293.30 | 0.34 |
| 18 | 9.00 | 294.20 | 0.31 |
| 19 | 9.50 | 295.10 | 0.30 |
| 20 | 10.00 | 295.80 | 0.24 |
| 21 | 10.50 | 296.40 | 0.20 |
| 22 | 11.00 | 297.10 | 0.24 |

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
( 297.1 - 22.55138 )(1)/(1) = +2.745E+02 g/L Carbon
( 297.1 - 22.55138 )(1)/(1)(12) = +2.288E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

0.0759g = 3.62E-3

# LABCORE Data Entry Template for Worklist# 2908

**Analyst:** DPB **Instrument:** TOC02 **Book #** 16N12-B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 *PRIORITY*

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK | | | | TOC-02 | SOLID | 1 | 25.8 | N/A | ug/g |
| | | 2 STD | | | | TOC-02 | SOLID | 3.00E3 | 2.72E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 SAMPLE | S95T001976 | 0 | | TOC-02 | SOLID | N/A | 1.72E4 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 4 DUP | S95T001976 | 0 | | TOC-02 | SOLID | 1.72E4 | 1.34E4 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 SPK | S95T001976 | 0 | | TOC-02 | SOLID | 100 | ~~67~~ 86.890 JWB 10/17/95 RWS 10/19/95 | N/A | ug/g |
| 95000118 | BY-108 (R) | 6 SAMPLE | S95T001977 | 0 | | TOC-02 | SOLID | N/A | 1.36E4 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 7 DUP | S95T001977 | 0 | | TOC-02 | SOLID | 1.36E4 | 1.32E4 | N/A | ug/g |

## Final page for worklist # 2908

Daniel P. Bromley 10/15/95
Analyst Signature Date

Gary Hammett 10-16-95
Analyst Signature Date

JWB 10/17/95

STD 0.200 mL 16N12-B
S95T001976 ~~0.0589g~~ DPB 10/15/95 0.0493g
S95T001976 DUP 0.0497g
S95T001976 + SPK 0.0132g
S95T001977 SAM 0.0540g
S95T001977 DUP 0.0519g

*Data Entry Comments:* Spike: .1 mL 16N12-B + .5 mL 17N12-A + sample
A triplicate of Sample S95T001976 was run to show supporting data.
RWS 10/19/95 The triplicate value is 1.396 E+4 mg/g, which closely resembles the duplicate value. RWS 10/19/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 16N12B Date: 10/19/95 Time: 11:11:17

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.88 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.70 | 0.00 |
| 2 | 1.01 | 6.60 | 74.24 |
| 3 | 1.50 | 31.50 | 79.05 |
| 4 | 2.00 | 100.50 | 68.66 |
| 5 | 2.51 | 224.90 | 55.31 |
| 6 | 3.01 | 403.70 | 44.29 |
| 7 | 3.51 | 514.70 | 21.57 |
| 8 | 4.00 | 558.20 | 7.79 |
| 9 | 4.50 | 571.70 | 2.36 |
| 10 | 5.00 | 576.90 | 0.90 |
| 11 | 5.50 | 579.80 | 0.50 |
| 12 | 6.00 | 582.00 | 0.38 |
| 13 | 6.50 | 583.70 | 0.29 |
| 14 | 7.00 | 585.20 | 0.26 |
| 15 | 7.50 | 586.50 | 0.22 |
| 16 | 8.00 | 587.40 | 0.15 |
| 17 | 8.50 | 588.10 | 0.12 |
| 18 | 9.00 | 588.90 | 0.14 |
| 19 | 9.50 | 589.60 | 0.12 |
| 20 | 10.00 | 590.10 | 0.08 |
| 21 | 10.50 | 590.70 | 0.10 |
| 22 | 11.00 | 591.20 | 0.08 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 740 TO 750.**

USER INPUT BLANK VALUE
BLANK VALUE = 53.66541 micrograms carbon
BLANK FACTOR = 53.66541 / 10.99701 = +4.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 591.2 - 53.68328 )(1)/(200) = +2.688E+00 g/L Carbon
( 591.2 - 53.68328 )(1)/(200)(12) = +2.240E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD Spellman 10-19-95
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE  Date: 10/19/95  Time: 08:43:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.80 | 0.00 |
| 2 | 1.01 | 8.70 | 90.80 |
| 3 | 1.50 | 21.10 | 58.77 |
| 4 | 2.00 | 31.60 | 33.23 |
| 5 | 2.50 | 38.60 | 18.13 |
| 6 | 3.00 | 42.50 | 9.18 |
| 7 | 3.50 | 44.20 | 3.85 |
| 8 | 4.00 | 45.50 | 2.86 |
| 9 | 4.50 | 46.70 | 2.57 |
| 10 | 5.00 | 47.70 | 2.10 |
| 11 | 5.50 | 48.60 | 1.85 |
| 12 | 6.00 | 49.50 | 1.82 |
| 13 | 6.50 | 50.10 | 1.20 |
| 14 | 7.00 | 50.60 | 0.99 |
| 15 | 7.50 | 51.30 | 1.36 |
| 16 | 8.00 | 51.70 | 0.77 |
| 17 | 8.50 | 52.10 | 0.77 |
| 18 | 9.00 | 52.60 | 0.95 |
| 19 | 9.50 | 52.80 | 0.38 |
| 20 | 10.00 | 53.10 | 0.56 |
| 21 | 10.50 | 53.40 | 0.56 |
| 22 | 11.00 | 53.70 | 0.56 |

BLANK VALUE = 53.7 micrograms carbon
BLANK FACTOR = 53.7 / 10.99783 = +4.88E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: TOCBLK Date: 10/15/95 Time: 14:32:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = TOCBLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.00 | 0.00 |
| 3 | 1.51 | 0.60 | 100.00 |
| 4 | 2.00 | 3.10 | 80.65 |
| 5 | 2.50 | 7.30 | 57.53 |
| 6 | 3.00 | 12.00 | 39.17 |
| 7 | 3.50 | 13.50 | 11.11 |
| 8 | 4.00 | 14.60 | 7.53 |
| 9 | 4.50 | 16.60 | 12.05 |
| 10 | 5.00 | 16.60 | 0.00 |
| 11 | 5.50 | 16.60 | 0.00 |
| 12 | 6.00 | 16.60 | 0.00 |
| 13 | 6.50 | 16.90 | 1.78 |
| 14 | 7.00 | 17.30 | 2.31 |
| 15 | 7.50 | 17.40 | 0.57 |
| 16 | 8.00 | 17.60 | 1.14 |
| 17 | 8.50 | 17.80 | 1.12 |
| 18 | 9.00 | 18.00 | 1.11 |
| 19 | 9.50 | 18.20 | 1.10 |
| 20 | 10.00 | 18.30 | 0.55 |
| 21 | 10.50 | 18.50 | 1.08 |
| 22 | 11.00 | 18.60 | 0.54 |

BLANK VALUE = 18.6 micrograms carbon
BLANK FACTOR = 18.6 / 10.99786 = +1.69E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

.2 mL
16N12-B

WHC-SD-WM-DP-145, REV. 1

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: TOCSTD  Date: 10/15/95  Time: 13:56:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| Reading | Analysis Time | Coulometer | % Difference |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.90 | 88.89 |
| 3 | 1.51 | 2.10 | 57.14 |
| 4 | 2.00 | 57.00 | 96.32 |
| 5 | 2.50 | 291.80 | 80.47 |
| 6 | 3.01 | 489.80 | 40.42 |
| 7 | 3.51 | 535.00 | 8.45 |
| 8 | 4.00 | 544.40 | 1.73 |
| 9 | 4.50 | 551.00 | 1.20 |
| 10 | 5.00 | 555.10 | 0.74 |
| 11 | 5.50 | 556.00 | 0.16 |
| 12 | 6.00 | 557.70 | 0.30 |
| 13 | 6.50 | 558.40 | 0.13 |
| 14 | 7.00 | 559.20 | 0.14 |
| 15 | 7.50 | 560.30 | 0.20 |
| 16 | 8.00 | 560.30 | 0.00 |
| 17 | 8.50 | 560.70 | 0.07 |
| 18 | 9.00 | 561.00 | 0.05 |
| 19 | 9.50 | 561.80 | 0.14 |
| 20 | 10.00 | 561.80 | 0.00 |
| 21 | 10.50 | 562.10 | 0.05 |
| 22 | 11.00 | 562.50 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS: 18.6 RWS 10/16/95
( 562.5 - ~~25.84957~~ )(1)/(1) = 5.44 E2 RWS 10/16/95 ~~+5.367E+02~~ g/L Carbon
( 562.5 - 25.84957 )(1)/(1)(12) = +4.472E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

743  544 / 0.200 = 272 E3

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: TOCBLK Date: 10/15/95 Time: 11:14:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = TOCBLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 0.70 | 71.43 |
| 3 | 1.50 | 1.20 | 41.67 |
| 4 | 2.00 | 2.10 | 42.86 |
| 5 | 2.50 | 4.20 | 50.00 |
| 6 | 3.01 | 8.40 | 50.00 |
| 7 | 3.51 | 14.50 | 42.07 |
| 8 | 4.00 | 16.20 | 10.49 |
| 9 | 4.50 | 18.70 | 13.37 |
| 10 | 5.00 | 19.70 | 5.08 |
| 11 | 5.50 | 20.70 | 4.83 |
| 12 | 6.00 | 20.70 | 0.00 |
| 13 | 6.50 | 21.40 | 3.27 |
| 14 | 7.00 | 22.40 | 4.46 |
| 15 | 7.50 | 22.40 | 0.00 |
| 16 | 8.00 | 23.00 | 2.61 |
| 17 | 8.50 | 24.20 | 4.96 |
| 18 | 9.00 | 24.20 | 0.00 |
| 19 | 9.50 | 24.50 | 1.22 |
| 20 | 10.00 | 24.90 | 1.61 |
| 21 | 10.50 | 25.30 | 1.58 |
| 22 | 11.00 | 25.80 | 1.94 |

BLANK VALUE = 25.8 micrograms carbon
BLANK FACTOR = 25.8 / 11.00067 = +2.35E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

0.0493g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001976SAM  Date: 10/15/95  Time: 15:11:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.50 | 0.00 |
| 2 | 1.01 | 0.50 | 0.00 |
| 3 | 1.50 | 3.50 | 85.71 |
| 4 | 2.00 | 44.30 | 92.10 |
| 5 | 2.50 | 212.10 | 79.11 |
| 6 | 3.00 | 443.00 | 52.12 |
| 7 | 3.50 | 592.60 | 25.24 |
| 8 | 4.00 | 683.00 | 13.24 |
| 9 | 4.50 | 740.20 | 7.73 |
| 10 | 5.00 | 777.50 | 4.80 |
| 11 | 5.50 | 803.70 | 3.26 |
| 12 | 6.00 | 821.80 | 2.20 |
| 13 | 6.50 | 832.60 | 1.30 |
| 14 | 7.00 | 845.00 | 1.47 |
| 15 | 7.50 | 853.40 | 0.98 |
| 16 | 8.00 | 859.10 | 0.66 |
| 17 | 8.50 | 865.70 | 0.76 |
| 18 | 9.00 | 869.90 | 0.48 |
| 19 | 9.50 | 871.40 | 0.17 |
| 20 | 10.00 | 874.30 | 0.33 |
| 21 | 10.50 | 874.30 | 0.00 |
| 22 | 11.00 | 875.10 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
( 875.1 - 25.84928 )(1)/(1) = +8.493E+02 g/L Carbon
( 875.1 - 25.84928 )(1)/(1)(12) = +7.077E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

745 849.3/0.0493 = 1.72E4 mg/g

0.0497 g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

DYB 10/5/95
1976 DUP

Sample: S95T00~~1977DUP~~ Date: 10/15/95 Time: 16:07:00

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.00 | 0.00 |
| 3 | 1.50 | 0.00 | 0.00 |
| 4 | 2.00 | 94.60 | 100.00 |
| 5 | 2.50 | 317.60 | 70.21 |
| 6 | 3.00 | 453.10 | 29.91 |
| 7 | 3.50 | 548.50 | 17.39 |
| 8 | 4.00 | 586.50 | 6.48 |
| 9 | 4.50 | 613.30 | 4.37 |
| 10 | 5.00 | 635.70 | 3.52 |
| 11 | 5.50 | 648.30 | 1.94 |
| 12 | 6.00 | 662.00 | 2.07 |
| 13 | 6.50 | 671.60 | 1.43 |
| 14 | 7.00 | 678.40 | 1.00 |
| 15 | 7.50 | 682.30 | 0.57 |
| 16 | 8.00 | 685.50 | 0.47 |
| 17 | 8.50 | 687.40 | 0.28 |
| 18 | 9.00 | 689.70 | 0.33 |
| 19 | 9.50 | 690.50 | 0.12 |
| 20 | 10.00 | 692.10 | 0.23 |
| 21 | 10.50 | 692.10 | 0.00 |
| 22 | 11.00 | 693.10 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
( 693.1 - 25.84928 )(1)/(1) = +6.673E+02 g/L Carbon
( 693.1 - 25.84928 )(1)/(1)(12) = +5.560E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

667.3
~~693.1~~ / 0.0497 = 1.34 E4 µg/g
746

RWS 10/16/95

.0322 g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001976SPK  Date: 10/15/95  Time: 16:51:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.80 | 0.00 |
| 2 | 1.01 | 0.80 | 0.00 |
| 3 | 1.50 | 5.50 | 85.45 |
| 4 | 2.00 | 57.00 | 90.35 |
| 5 | 2.50 | 244.80 | 76.72 |
| 6 | 3.00 | 468.30 | 47.73 |
| 7 | 3.50 | 604.90 | 22.58 |
| 8 | 4.00 | 635.00 | 4.74 |
| 9 | 4.50 | 675.70 | 6.02 |
| 10 | 5.00 | 693.90 | 2.62 |
| 11 | 5.50 | 713.40 | 2.73 |
| 12 | 6.00 | 728.90 | 2.13 |
| 13 | 6.50 | 732.90 | 0.55 |
| 14 | 7.00 | 743.70 | 1.45 |
| 15 | 7.50 | 749.40 | 0.76 |
| 16 | 8.00 | 754.00 | 0.61 |
| 17 | 8.50 | 757.20 | 0.42 |
| 18 | 9.00 | 761.30 | 0.54 |
| 19 | 9.50 | 764.90 | 0.47 |
| 20 | 10.00 | 765.90 | 0.13 |
| 21 | 10.50 | 766.60 | 0.09 |
| 22 | 11.00 | 767.70 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
( 767.7 - 25.84727 )(1)/(1) = +7.419E+02 g/L Carbon
( 767.7 - 25.84727 )(1)/(1)(12) = +6.182E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

747

~~383.~~ (767.7 - 25.8)/(849/0.0493)(0.0322)+(3000)(.100) = 86.8% rec

0.0540g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001977SAM  Date: 10/15/95  Time: 20:01:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 1.30 | 0.00 |
| 3 | 1.51 | 3.50 | 62.86 |
| 4 | 2.00 | 18.90 | 81.48 |
| 5 | 2.51 | 135.50 | 86.05 |
| 6 | 3.01 | 315.00 | 56.98 |
| 7 | 3.50 | 478.40 | 34.16 |
| 8 | 4.00 | 555.80 | 13.93 |
| 9 | 4.50 | 628.10 | 11.51 |
| 10 | 5.00 | 669.40 | 6.17 |
| 11 | 5.50 | 685.10 | 2.29 |
| 12 | 6.00 | 704.00 | 2.68 |
| 13 | 6.50 | 712.60 | 1.21 |
| 14 | 7.00 | 723.80 | 1.55 |
| 15 | 7.50 | 734.90 | 1.51 |
| 16 | 8.00 | 739.30 | 0.60 |
| 17 | 8.50 | 745.90 | 0.88 |
| 18 | 9.00 | 749.20 | 0.44 |
| 19 | 9.50 | 752.00 | 0.37 |
| 20 | 10.00 | 754.40 | 0.32 |
| 21 | 10.50 | 756.50 | 0.28 |
| 22 | 11.00 | 757.40 | 0.12 |

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
( 757.4 - 25.85143 )(1)/(1) = +7.315E+02 g/L Carbon
( 757.4 - 25.85143 )(1)/(1)(12) = +6.096E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

732
~~757.4~~ / 0.054 = 1.36 E4 ug/g
748
RWS
10/16/95

0.0519g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001977DUP  Date: 10/15/95  Time: 20:30:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 1.90 | 36.84 |
| 3 | 1.51 | 20.40 | 90.69 |
| 4 | 2.01 | 223.60 | 90.88 |
| 5 | 2.51 | 446.10 | 49.88 |
| 6 | 3.00 | 533.50 | 16.38 |
| 7 | 3.50 | 589.60 | 9.51 |
| 8 | 4.00 | 625.70 | 5.77 |
| 9 | 4.50 | 648.30 | 3.49 |
| 10 | 5.00 | 665.30 | 2.56 |
| 11 | 5.50 | 681.00 | 2.31 |
| 12 | 6.00 | 691.00 | 1.45 |
| 13 | 6.50 | 694.90 | 0.56 |
| 14 | 7.00 | 699.20 | 0.61 |
| 15 | 7.50 | 703.60 | 0.63 |
| 16 | 8.00 | 704.80 | 0.17 |
| 17 | 8.50 | 706.30 | 0.21 |
| 18 | 9.00 | 708.90 | 0.37 |
| 19 | 9.50 | 709.00 | 0.01 |
| 20 | 10.00 | 710.20 | 0.17 |
| 21 | 10.50 | 711.40 | 0.17 |
| 22 | 11.00 | 712.50 | 0.15 |

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
( 712.5 - 25.85143 )(1)/(1) = +6.866E+02 g/L Carbon
( 712.5 - 25.85143 )(1)/(1)(12) = +5.722E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

712.5 - 25.9 = 686.6/0.059 = 1.32E4 µg/g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Triplicate
Sample: S95T001976 Date: 10/19/95 Time: 12:02:03

Sample Size = 402 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.88 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 2.90 | 93.10 |
| 3 | 1.51 | 23.90 | 87.87 |
| 4 | 2.00 | 85.10 | 71.92 |
| 5 | 2.50 | 179.70 | 52.64 |
| 6 | 3.00 | 272.10 | 33.96 |
| 7 | 3.50 | 353.00 | 22.92 |
| 8 | 4.00 | 414.20 | 14.78 |
| 9 | 4.50 | 460.30 | 10.02 |
| 10 | 5.00 | 495.80 | 7.16 |
| 11 | 5.50 | 523.20 | 5.24 |
| 12 | 6.00 | 543.20 | 3.68 |
| 13 | 6.50 | 558.70 | 2.77 |
| 14 | 7.00 | 570.90 | 2.14 |
| 15 | 7.50 | 580.90 | 1.72 |
| 16 | 8.00 | 589.00 | 1.38 |
| 17 | 8.50 | 595.50 | 1.09 |
| 18 | 9.00 | 600.60 | 0.85 |
| 19 | 9.50 | 605.40 | 0.79 |
| 20 | 10.00 | 609.40 | 0.66 |
| 21 | 10.50 | 612.30 | 0.47 |
| 22 | 11.00 | 615.10 | 0.46 |

USER INPUT BLANK VALUE
BLANK VALUE = 53.66541 micrograms carbon
BLANK FACTOR = 53.66541 / 10.99701 = +4.9E+00 ug/min Carbon

SAMPLE RESULTS:
( 615.1 - 53.68834 )(1)/(402) = +1.397E+00 g/L Carbon
( 615.1 - 53.68834 )(1)/(402)(12) = +1.164E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

# LABCORE Data Entry Template for Worklist# 2977

**Analyst:** KRM **Instrument:** TOC02 **Book #** 16 N 12 B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC (include TIC data, spike only the TOC)

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 3.3 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00E3 | 2.85E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T001925 | 0 | | TOC-02 | SOLID | N/A | 3.00E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T001925 | 0 | | TOC-02 | SOLID | 3.00E3 | 2.50E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 | SPK | S95T001925 | 0 | | TOC-02 | SOLID | 100 | 75.7 | N/A | ug/g |
| 95000118 | BY-108 (R) | 6 | SAMPLE | S95T001966 | 0 | | TOC-02 | SOLID | N/A | 2.45E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 7 | DUP | S95T001966 | 0 | | TOC-02 | SOLID | 2.45E3 | 2.38E3 | N/A | ug/g |

## Final page for worklist # 2977

10-25-95
**Analyst Signature** **Date**

10-25-95
**Analyst Signature** **Date**

Reviewed RW Schroeder 10/26/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 10/25/95  Time: 00:22:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 0.60 | 50.00 |
| 3 | 1.51 | 1.10 | 45.45 |
| 4 | 2.00 | 1.50 | 26.67 |
| 5 | 2.50 | 1.90 | 21.05 |
| 6 | 3.00 | 2.10 | 9.52 |
| 7 | 3.50 | 2.30 | 8.70 |
| 8 | 4.00 | 2.60 | 11.54 |
| 9 | 4.50 | 2.80 | 7.14 |
| 10 | 5.00 | 3.10 | 9.68 |
| 11 | 5.50 | 3.30 | 6.06 |
| 12 | 6.00 | 3.50 | 5.71 |
| 13 | 6.50 | 3.80 | 7.89 |
| 14 | 7.00 | 4.00 | 5.00 |
| 15 | 7.50 | 4.20 | 4.76 |
| 16 | 8.00 | 4.50 | 6.67 |
| 17 | 8.50 | 4.70 | 4.26 |
| 18 | 9.00 | 4.90 | 4.08 |
| 19 | 9.50 | 5.20 | 5.77 |
| 20 | 10.00 | 5.40 | 3.70 |
| 21 | 10.50 | 5.50 | 1.82 |
| 22 | 11.00 | 5.80 | 5.17 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 752 TO 767.**

BLANK VALUE = 5.8 micrograms carbon
BLANK FACTOR = 5.8 / 11.00167 = +5.3E-01 ug/min Carbon

Sample Run By KR MONTEITH 10-25-95 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/25/95 Time: 00:34:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.20 | 100.00 |
| 3 | 1.51 | 6.00 | 80.00 |
| 4 | 2.01 | 11.40 | 47.37 |
| 5 | 2.51 | 14.70 | 22.45 |
| 6 | 3.01 | 16.40 | 10.37 |
| 7 | 3.50 | 17.50 | 6.29 |
| 8 | 4.00 | 18.30 | 4.37 |
| 9 | 4.50 | 18.90 | 3.17 |
| 10 | 5.00 | 19.60 | 3.57 |
| 11 | 5.50 | 20.00 | 2.00 |
| 12 | 6.00 | 20.50 | 2.44 |
| 13 | 6.50 | 20.90 | 1.91 |
| 14 | 7.00 | 21.30 | 1.88 |
| 15 | 7.50 | 21.80 | 2.29 |
| 16 | 8.00 | 22.10 | 1.36 |
| 17 | 8.50 | 22.50 | 1.78 |
| 18 | 9.00 | 22.80 | 1.32 |
| 19 | 9.50 | 23.20 | 1.72 |
| 20 | 10.00 | 23.50 | 1.28 |
| 21 | 10.50 | 23.80 | 1.26 |
| 22 | 11.00 | 24.00 | 0.83 |

BLANK VALUE = 24 micrograms carbon
BLANK FACTOR = 24 / 11.00167 = +2.18E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/25/95 Time: 00:46:22

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 19.30 | 100.00 |
| 3 | 1.51 | 200.50 | 90.37 |
| 4 | 2.00 | 402.70 | 50.21 |
| 5 | 2.50 | 517.10 | 22.12 |
| 6 | 3.00 | 571.00 | 9.44 |
| 7 | 3.50 | 590.50 | 3.30 |
| 8 | 4.00 | 597.00 | 1.09 |
| 9 | 4.50 | 599.40 | 0.40 |
| 10 | 5.00 | 600.80 | 0.23 |
| 11 | 5.50 | 601.80 | 0.17 |
| 12 | 6.00 | 602.60 | 0.13 |
| 13 | 6.50 | 603.40 | 0.13 |
| 14 | 7.00 | 604.00 | 0.10 |
| 15 | 7.50 | 604.60 | 0.10 |
| 16 | 8.00 | 605.10 | 0.08 |
| 17 | 8.50 | 605.70 | 0.10 |
| 18 | 9.00 | 606.10 | 0.07 |
| 19 | 9.50 | 606.60 | 0.08 |
| 20 | 10.00 | 607.00 | 0.07 |
| 21 | 10.50 | 607.50 | 0.08 |
| 22 | 11.00 | 607.80 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 607.8 - 5.829381 )(1)/(1000) = +6.020E-01 g/L Carbon
( 607.8 - 5.829381 )(1)/(1000)(12) = +5.016E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-CD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/25/95 Time: 00:58:05

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 3.30 | 96.97 |
| 3 | 1.51 | 47.70 | 93.08 |
| 4 | 2.00 | 213.30 | 77.64 |
| 5 | 2.50 | 475.70 | 55.16 |
| 6 | 3.00 | 693.80 | 31.44 |
| 7 | 3.50 | 798.50 | 13.11 |
| 8 | 4.00 | 843.30 | 5.31 |
| 9 | 4.50 | 858.40 | 1.76 |
| 10 | 5.00 | 863.90 | 0.64 |
| 11 | 5.50 | 866.60 | 0.31 |
| 12 | 6.00 | 868.30 | 0.20 |
| 13 | 6.50 | 869.90 | 0.18 |
| 14 | 7.00 | 871.10 | 0.14 |
| 15 | 7.50 | 872.10 | 0.11 |
| 16 | 8.00 | 873.10 | 0.11 |
| 17 | 8.50 | 874.00 | 0.10 |
| 18 | 9.00 | 874.70 | 0.08 |
| 19 | 9.50 | 875.50 | 0.09 |
| 20 | 10.00 | 876.20 | 0.08 |
| 21 | 10.50 | 876.80 | 0.07 |
| 22 | 11.00 | 877.40 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 877.4 - 23.97746 )(1)/(300) = +2.845E+00 g/L Carbon
( 877.4 - 23.97746 )(1)/(300)(12) = +2.371E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHO-CD-VM-DP-/65, REV./

755

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK  Date: 10/25/95  Time: 01:10:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.00 | 0.00 |
| 2 | 1.01 | 4.00 | 50.00 |
| 3 | 1.51 | 5.10 | 21.57 |
| 4 | 2.00 | 5.70 | 10.53 |
| 5 | 2.50 | 6.30 | 9.52 |
| 6 | 3.00 | 6.70 | 5.97 |
| 7 | 3.50 | 7.20 | 6.94 |
| 8 | 4.00 | 7.50 | 4.00 |
| 9 | 4.50 | 7.90 | 5.06 |
| 10 | 5.00 | 8.30 | 4.82 |
| 11 | 5.50 | 8.60 | 3.49 |
| 12 | 6.00 | 9.00 | 4.44 |
| 13 | 6.50 | 9.30 | 3.23 |
| 14 | 7.00 | 9.70 | 4.12 |
| 15 | 7.50 | 10.00 | 3.00 |
| 16 | 8.00 | 10.40 | 3.85 |
| 17 | 8.50 | 10.70 | 2.80 |
| 18 | 9.00 | 11.00 | 2.73 |
| 19 | 9.50 | 11.30 | 2.65 |
| 20 | 10.00 | 11.70 | 3.42 |
| 21 | 10.50 | 12.00 | 2.50 |
| 22 | 11.00 | 12.30 | 2.44 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 12.3 - 5.830883 )(1)/(1) = +6.47E+00 g/L Carbon
( 12.3 - 5.830883 )(1)/(1)(12) = +5.39E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-146, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/25/95 Time: 01:59:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.00 | 1.90 | 89.47 |
| 3 | 1.50 | 5.90 | 67.80 |
| 4 | 2.00 | 9.50 | 37.89 |
| 5 | 2.50 | 11.90 | 20.17 |
| 6 | 3.00 | 13.10 | 9.16 |
| 7 | 3.50 | 14.10 | 7.09 |
| 8 | 4.00 | 14.80 | 4.73 |
| 9 | 4.50 | 15.40 | 3.90 |
| 10 | 5.00 | 16.00 | 3.75 |
| 11 | 5.50 | 16.40 | 2.44 |
| 12 | 6.00 | 17.00 | 3.53 |
| 13 | 6.50 | 17.50 | 2.86 |
| 14 | 7.00 | 18.00 | 2.78 |
| 15 | 7.50 | 18.40 | 2.17 |
| 16 | 8.00 | 18.70 | 1.60 |
| 17 | 8.50 | 19.10 | 2.09 |
| 18 | 9.00 | 19.40 | 1.55 |
| 19 | 9.50 | 19.80 | 2.02 |
| 20 | 10.00 | 20.10 | 1.49 |
| 21 | 10.50 | 20.40 | 1.47 |
| 22 | 11.00 | 20.70 | 1.45 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 20.7 - 23.98145 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 20.7 - 23.98145 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:12:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 0.60 | 0.00 |
| 3 | 1.50 | 38.40 | 98.44 |
| 4 | 2.00 | 144.00 | 73.33 |
| 5 | 2.50 | 242.30 | 40.57 |
| 6 | 3.00 | 305.50 | 20.69 |
| 7 | 3.50 | 336.70 | 9.27 |
| 8 | 4.00 | 349.80 | 3.74 |
| 9 | 4.50 | 355.30 | 1.55 |
| 10 | 5.00 | 357.90 | 0.73 |
| 11 | 5.50 | 359.60 | 0.47 |
| 12 | 6.00 | 360.80 | 0.33 |
| 13 | 6.50 | 361.70 | 0.25 |
| 14 | 7.00 | 362.40 | 0.19 |
| 15 | 7.50 | 363.10 | 0.19 |
| 16 | 8.00 | 363.70 | 0.16 |
| 17 | 8.50 | 364.20 | 0.14 |
| 18 | 9.00 | 364.80 | 0.16 |
| 19 | 9.50 | 365.30 | 0.14 |
| 20 | 10.00 | 365.70 | 0.11 |
| 21 | 10.50 | 366.10 | 0.11 |
| 22 | 11.00 | 366.50 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 366.5 - 5.829381 )(1)/(1) = +3.607E+02 g/L Carbon
( 366.5 - 5.829381 )(1)/(1)(12) = +3.006E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:24:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 64.20 | 99.38 |
| 3 | 1.50 | 213.30 | 69.90 |
| 4 | 2.00 | 307.60 | 30.66 |
| 5 | 2.50 | 354.20 | 13.16 |
| 6 | 3.00 | 373.50 | 5.17 |
| 7 | 3.50 | 381.30 | 2.05 |
| 8 | 4.00 | 385.20 | 1.01 |
| 9 | 4.50 | 387.70 | 0.64 |
| 10 | 5.00 | 389.60 | 0.49 |
| 11 | 5.50 | 391.10 | 0.38 |
| 12 | 6.00 | 392.40 | 0.33 |
| 13 | 6.50 | 393.40 | 0.25 |
| 14 | 7.00 | 394.40 | 0.25 |
| 15 | 7.50 | 395.30 | 0.23 |
| 16 | 8.00 | 396.00 | 0.18 |
| 17 | 8.50 | 396.80 | 0.20 |
| 18 | 9.00 | 397.40 | 0.15 |
| 19 | 9.50 | 398.00 | 0.15 |
| 20 | 10.00 | 398.60 | 0.15 |
| 21 | 10.50 | 399.10 | 0.13 |
| 22 | 11.00 | 399.60 | 0.13 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 399.6 - 23.97711 )(1)/(1) = +3.756E+02 g/L Carbon
( 399.6 - 23.97711 )(1)/(1)(12) = +3.130E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{375.6}{.1251} = 3.00E^3$

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:36:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 9.60 | 97.92 |
| 3 | 1.51 | 92.40 | 89.61 |
| 4 | 2.01 | 203.30 | 54.55 |
| 5 | 2.50 | 288.10 | 29.43 |
| 6 | 3.00 | 341.70 | 15.69 |
| 7 | 3.50 | 368.80 | 7.35 |
| 8 | 4.00 | 380.50 | 3.07 |
| 9 | 4.50 | 385.60 | 1.32 |
| 10 | 5.00 | 388.20 | 0.67 |
| 11 | 5.50 | 389.90 | 0.44 |
| 12 | 6.00 | 391.10 | 0.31 |
| 13 | 6.50 | 392.10 | 0.26 |
| 14 | 7.00 | 393.00 | 0.23 |
| 15 | 7.50 | 393.80 | 0.20 |
| 16 | 8.00 | 394.50 | 0.18 |
| 17 | 8.50 | 395.20 | 0.18 |
| 18 | 9.00 | 395.80 | 0.15 |
| 19 | 9.50 | 396.40 | 0.15 |
| 20 | 10.00 | 396.90 | 0.13 |
| 21 | 10.50 | 397.40 | 0.13 |
| 22 | 11.00 | 397.90 | 0.13 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 397.9 - 5.830356 )(1)/(1) = +3.921E+02 g/L Carbon
( 397.9 - 5.830356 )(1)/(1)(12) = +3.267E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:48:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 115.80 | 98.88 |
| 3 | 1.51 | 348.00 | 66.72 |
| 4 | 2.00 | 480.10 | 27.52 |
| 5 | 2.50 | 547.90 | 12.37 |
| 6 | 3.00 | 577.10 | 5.06 |
| 7 | 3.50 | 589.30 | 2.07 |
| 8 | 4.00 | 595.40 | 1.02 |
| 9 | 4.50 | 599.10 | 0.62 |
| 10 | 5.00 | 601.80 | 0.45 |
| 11 | 5.50 | 604.10 | 0.38 |
| 12 | 6.00 | 605.80 | 0.28 |
| 13 | 6.50 | 607.40 | 0.26 |
| 14 | 7.00 | 608.80 | 0.23 |
| 15 | 7.50 | 610.10 | 0.21 |
| 16 | 8.00 | 611.20 | 0.18 |
| 17 | 8.50 | 612.30 | 0.18 |
| 18 | 9.00 | 613.50 | 0.20 |
| 19 | 9.50 | 614.50 | 0.16 |
| 20 | 10.00 | 615.40 | 0.15 |
| 21 | 10.50 | 616.20 | 0.13 |
| 22 | 11.00 | 616.90 | 0.11 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 616.9 - 23.97747 )(1)/(1) = +5.929E+02 g/L Carbon
( 616.9 - 23.97747 )(1)/(1)(12) = +4.941E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{592.9}{.2376} = 2.50E^3$

WHC-CD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 + SPK  Date: 10/25/95  Time: 03:00:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 17.20 | 97.67 |
| 3 | 1.50 | 92.30 | 81.37 |
| 4 | 2.00 | 174.70 | 47.17 |
| 5 | 2.50 | 234.10 | 25.37 |
| 6 | 3.00 | 267.90 | 12.62 |
| 7 | 3.50 | 283.70 | 5.57 |
| 8 | 4.00 | 290.30 | 2.27 |
| 9 | 4.50 | 293.70 | 1.16 |
| 10 | 5.00 | 295.40 | 0.58 |
| 11 | 5.50 | 296.70 | 0.44 |
| 12 | 6.00 | 297.70 | 0.34 |
| 13 | 6.50 | 298.60 | 0.30 |
| 14 | 7.00 | 299.40 | 0.27 |
| 15 | 7.50 | 300.10 | 0.23 |
| 16 | 8.00 | 300.70 | 0.20 |
| 17 | 8.50 | 301.30 | 0.20 |
| 18 | 9.00 | 301.90 | 0.20 |
| 19 | 9.50 | 302.40 | 0.17 |
| 20 | 10.00 | 303.00 | 0.20 |
| 21 | 10.50 | 303.40 | 0.13 |
| 22 | 11.00 | 303.90 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 303.9 - 5.829377 )(1)/(1) = +2.981E+02 g/L Carbon
( 303.9 - 5.829377 )(1)/(1)(12) = +2.484E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 + SPK  Date: 10/25/95  Time: 03:14:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 86.10 | 99.54 |
| 3 | 1.50 | 274.50 | 68.63 |
| 4 | 2.00 | 462.70 | 40.67 |
| 5 | 2.50 | 579.90 | 20.21 |
| 6 | 3.00 | 639.70 | 9.35 |
| 7 | 3.50 | 664.80 | 3.78 |
| 8 | 4.00 | 674.30 | 1.41 |
| 9 | 4.50 | 679.10 | 0.71 |
| 10 | 5.00 | 682.30 | 0.47 |
| 11 | 5.50 | 684.70 | 0.35 |
| 12 | 6.00 | 686.50 | 0.26 |
| 13 | 6.50 | 688.10 | 0.23 |
| 14 | 7.00 | 689.60 | 0.22 |
| 15 | 7.50 | 690.80 | 0.17 |
| 16 | 8.00 | 691.90 | 0.16 |
| 17 | 8.50 | 693.00 | 0.16 |
| 18 | 9.00 | 693.90 | 0.13 |
| 19 | 9.50 | 694.80 | 0.13 |
| 20 | 10.00 | 695.60 | 0.12 |
| 21 | 10.50 | 696.40 | 0.11 |
| 22 | 11.00 | 697.60 | 0.17 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 697.6 - 23.9793 )(1)/(1) = +6.736E+02 g/L Carbon
( 697.6 - 23.9793 )(1)/(1)(12) = +5.614E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$$\frac{697.6}{\left[\left(\frac{399.6}{.1251}\right).1946 + 300\right]} = 75.7\% \text{ REC}$$

WHO-CD-WM-DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:26:32

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.90 | 0.00 |
| 2 | 1.01 | 4.40 | 79.55 |
| 3 | 1.51 | 46.40 | 90.52 |
| 4 | 2.00 | 148.90 | 68.84 |
| 5 | 2.51 | 266.30 | 44.09 |
| 6 | 3.01 | 371.20 | 28.26 |
| 7 | 3.51 | 444.10 | 16.42 |
| 8 | 4.01 | 481.90 | 7.84 |
| 9 | 4.50 | 496.60 | 2.96 |
| 10 | 5.00 | 502.70 | 1.21 |
| 11 | 5.50 | 505.60 | 0.57 |
| 12 | 6.00 | 507.50 | 0.37 |
| 13 | 6.50 | 508.90 | 0.28 |
| 14 | 7.00 | 510.20 | 0.25 |
| 15 | 7.50 | 511.20 | 0.20 |
| 16 | 8.00 | 512.10 | 0.18 |
| 17 | 8.50 | 513.00 | 0.18 |
| 18 | 9.00 | 513.80 | 0.16 |
| 19 | 9.50 | 514.50 | 0.14 |
| 20 | 10.00 | 515.30 | 0.16 |
| 21 | 10.50 | 515.90 | 0.12 |
| 22 | 11.00 | 516.60 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 516.6 - 5.830356 )(1)/(1) = +5.108E+02 g/L Carbon
( 516.6 - 5.830356 )(1)/(1)(12) = +4.256E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-CD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:38:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.00 | 42.40 | 99.53 |
| 3 | 1.50 | 152.30 | 72.16 |
| 4 | 2.00 | 230.70 | 33.98 |
| 5 | 2.50 | 275.70 | 16.32 |
| 6 | 3.00 | 295.20 | 6.61 |
| 7 | 3.50 | 303.80 | 2.83 |
| 8 | 4.00 | 308.50 | 1.52 |
| 9 | 4.50 | 311.30 | 0.90 |
| 10 | 5.00 | 313.40 | 0.67 |
| 11 | 5.50 | 315.20 | 0.57 |
| 12 | 6.00 | 316.60 | 0.44 |
| 13 | 6.50 | 317.80 | 0.38 |
| 14 | 7.00 | 319.00 | 0.38 |
| 15 | 7.50 | 320.00 | 0.31 |
| 16 | 8.00 | 320.90 | 0.28 |
| 17 | 8.50 | 321.70 | 0.25 |
| 18 | 9.00 | 322.50 | 0.25 |
| 19 | 9.50 | 323.20 | 0.22 |
| 20 | 10.00 | 323.90 | 0.22 |
| 21 | 10.50 | 324.60 | 0.22 |
| 22 | 11.00 | 325.40 | 0.25 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 325.4 - 23.97528 )(1)/(1) = +3.014E+02 g/L Carbon
( 325.4 - 23.97528 )(1)/(1)(12) = +2.512E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{301.4}{.1230} = 2.45E^3$

WHC-SD-WM DP-145, REV.1

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:50:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 3.90 | 89.74 |
| 3 | 1.50 | 47.60 | 91.81 |
| 4 | 2.00 | 139.30 | 65.83 |
| 5 | 2.50 | 251.90 | 44.70 |
| 6 | 3.00 | 359.90 | 30.01 |
| 7 | 3.50 | 446.00 | 19.30 |
| 8 | 4.00 | 500.60 | 10.91 |
| 9 | 4.50 | 525.50 | 4.74 |
| 10 | 5.00 | 535.00 | 1.78 |
| 11 | 5.50 | 539.40 | 0.82 |
| 12 | 6.00 | 541.80 | 0.44 |
| 13 | 6.50 | 543.70 | 0.35 |
| 14 | 7.00 | 545.10 | 0.26 |
| 15 | 7.50 | 546.50 | 0.26 |
| 16 | 8.00 | 547.70 | 0.22 |
| 17 | 8.50 | 548.80 | 0.20 |
| 18 | 9.00 | 549.90 | 0.20 |
| 19 | 9.50 | 550.90 | 0.18 |
| 20 | 10.00 | 551.80 | 0.16 |
| 21 | 10.50 | 552.60 | 0.14 |
| 22 | 11.00 | 553.40 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 553.4 - 5.829377 )(1)/(1) = +5.476E+02 g/L Carbon
( 553.4 - 5.829377 )(1)/(1)(12) = +4.563E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-W-M-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 04:02:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.10 | 0.00 |
| 2 | 1.01 | 59.90 | 98.16 |
| 3 | 1.51 | 186.90 | 67.95 |
| 4 | 2.00 | 275.40 | 32.14 |
| 5 | 2.50 | 324.70 | 15.18 |
| 6 | 3.00 | 346.30 | 6.24 |
| 7 | 3.50 | 355.40 | 2.56 |
| 8 | 4.00 | 360.70 | 1.47 |
| 9 | 4.50 | 364.10 | 0.93 |
| 10 | 5.00 | 366.90 | 0.76 |
| 11 | 5.50 | 368.90 | 0.54 |
| 12 | 6.00 | 370.80 | 0.51 |
| 13 | 6.50 | 372.40 | 0.43 |
| 14 | 7.00 | 373.80 | 0.37 |
| 15 | 7.50 | 375.20 | 0.37 |
| 16 | 8.00 | 376.50 | 0.35 |
| 17 | 8.50 | 377.70 | 0.32 |
| 18 | 9.00 | 378.50 | 0.21 |
| 19 | 9.50 | 379.40 | 0.24 |
| 20 | 10.00 | 380.20 | 0.21 |
| 21 | 10.50 | 380.80 | 0.16 |
| 22 | 11.00 | 381.40 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 381.4 - 23.98363 )(1)/(1) = +3.574E+02 g/L Carbon
( 381.4 - 23.98363 )(1)/(1)(12) = +2.978E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{357.4}{.1499} = 2.38E^3$

~~WHC-SD-W-M-DP-_____, REV.____~~ MW 1/26/96

# LABCORE Data Entry Template for Worklist# 2978

**Analyst:** DPB **Instrument:** TOC02 **Book #** 16N12-B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 (include TIC data, spike only the TOC)

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 9.80 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00E3 | 2.70E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T001967 | 0 | | TOC-02 | SOLID | N/A | 4.24E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T001967 | 0 | | TOC-02 | SOLID | 4.24E3 | 4.84E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 | SPK | S95T001967 | 0 | | TOC-02 | SOLID | 100 | 106 | N/A | ug/g |
| 95000118 | BY-108 (R) | 6 | SAMPLE | S95T001968 | 0 | | TOC-02 | SOLID | N/A | 2.81e3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 7 | DUP | S95T001968 | 0 | | TOC-02 | SOLID | 2.81e3 | 2.87e3 | N/A | ug/g |

## Final page for worklist # 2978

Donald P Brady 10/28/95
**Analyst Signature** **Date**

[illegible] 11-1-95
**Analyst Signature** **Date**

Reviewed RW Schroeder 11/6/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK Date: 10/28/95 Time: 02:46:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.20 | 50.00 |
| 3 | 1.50 | 0.40 | 50.00 |
| 4 | 2.00 | 0.80 | 50.00 |
| 5 | 2.50 | 1.00 | 20.00 |
| 6 | 3.00 | 1.20 | 16.67 |
| 7 | 3.50 | 1.40 | 14.29 |
| 8 | 4.00 | 1.70 | 17.65 |
| 9 | 4.50 | 2.00 | 15.00 |
| 10 | 5.00 | 2.30 | 13.04 |
| 11 | 5.50 | 2.60 | 11.54 |
| 12 | 6.00 | 2.90 | 10.34 |
| 13 | 6.50 | 3.10 | 6.45 |
| 14 | 7.00 | 3.30 | 6.06 |
| 15 | 7.50 | 3.50 | 5.71 |
| 16 | 8.00 | 3.70 | 5.41 |
| 17 | 8.50 | 3.80 | 2.63 |
| 18 | 9.00 | 3.90 | 2.56 |
| 19 | 9.50 | 4.10 | 4.88 |
| 20 | 10.00 | 4.20 | 2.38 |
| 21 | 10.50 | 4.30 | 2.33 |
| 22 | 11.00 | 4.40 | 2.27 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 769 TO 784.**

BLANK VALUE = 4.4 micrograms carbon
BLANK FACTOR = 4.4 / 11.00064 = +4.0E-01 ug/min Carbon

Sample Run By: DP Bromley 10-28-95
DP BROMLEY 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK Date: 10/28/95 Time: 03:00:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.60 | 100.00 |
| 3 | 1.50 | 4.00 | 85.00 |
| 4 | 2.00 | 9.30 | 56.99 |
| 5 | 2.50 | 14.00 | 33.57 |
| 6 | 3.00 | 16.80 | 16.67 |
| 7 | 3.50 | 18.60 | 9.68 |
| 8 | 4.00 | 20.10 | 7.46 |
| 9 | 4.50 | 21.30 | 5.63 |
| 10 | 5.00 | 22.50 | 5.33 |
| 11 | 5.50 | 23.30 | 3.43 |
| 12 | 6.00 | 24.20 | 3.72 |
| 13 | 6.50 | 24.80 | 2.42 |
| 14 | 7.00 | 25.50 | 2.75 |
| 15 | 7.50 | 26.00 | 1.92 |
| 16 | 8.00 | 26.40 | 1.52 |
| 17 | 8.50 | 26.80 | 1.49 |
| 18 | 9.00 | 27.20 | 1.47 |
| 19 | 9.50 | 27.40 | 0.73 |
| 20 | 10.00 | 27.70 | 1.08 |
| 21 | 10.50 | 28.00 | 1.07 |
| 22 | 11.00 | 28.10 | 0.36 |

BLANK VALUE = 28.1 micrograms carbon
BLANK FACTOR = 28.1 / 10.99799 = +2.56E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

,2 mL 16N12-B

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 10/28/95  Time: 03:33:30

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.80 | 87.50 |
| 3 | 1.51 | 13.60 | 94.12 |
| 4 | 2.01 | 94.90 | 85.67 |
| 5 | 2.51 | 273.90 | 65.35 |
| 6 | 3.01 | 434.10 | 36.90 |
| 7 | 3.51 | 509.80 | 14.85 |
| 8 | 4.01 | 535.10 | 4.73 |
| 9 | 4.51 | 543.50 | 1.55 |
| 10 | 5.01 | 547.30 | 0.69 |
| 11 | 5.51 | 549.60 | 0.42 |
| 12 | 6.01 | 550.90 | 0.24 |
| 13 | 6.51 | 552.40 | 0.27 |
| 14 | 7.00 | 553.60 | 0.22 |
| 15 | 7.50 | 554.50 | 0.16 |
| 16 | 8.00 | 555.40 | 0.16 |
| 17 | 8.50 | 556.10 | 0.13 |
| 18 | 9.00 | 556.70 | 0.11 |
| 19 | 9.50 | 557.30 | 0.11 |
| 20 | 10.00 | 557.80 | 0.09 |
| 21 | 10.50 | 558.20 | 0.07 |
| 22 | 11.00 | 558.70 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15484 micrograms carbon
BLANK FACTOR = 28.15484 / 10.99799 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWS 10/31/95
( 558.7 - ~~28.16851~~ )(1)/(200) = +2.653E+00 g/L Carbon
( 558.7 - 28.16851 )(1)/(200)(12) = +2.211E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

540/200 = 2.70 E+3 mg/g

Sample Run By: _____
DP BROMLEY 00000

1mL 17N12-A



# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 10/28/95  Time: 03:17:43

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.30 | 0.00 |
| 2 | 1.01 | 115.60 | 96.28 |
| 3 | 1.50 | 259.10 | 55.38 |
| 4 | 2.00 | 362.20 | 28.46 |
| 5 | 2.50 | 425.40 | 14.86 |
| 6 | 3.00 | 454.00 | 6.30 |
| 7 | 3.50 | 466.70 | 2.72 |
| 8 | 4.00 | 471.30 | 0.98 |
| 9 | 4.50 | 473.80 | 0.53 |
| 10 | 5.00 | 475.00 | 0.25 |
| 11 | 5.50 | 475.90 | 0.19 |
| 12 | 6.00 | 476.60 | 0.15 |
| 13 | 6.50 | 477.20 | 0.13 |
| 14 | 7.00 | 477.70 | 0.10 |
| 15 | 7.50 | 478.00 | 0.06 |
| 16 | 8.00 | 478.50 | 0.10 |
| 17 | 8.50 | 478.80 | 0.06 |
| 18 | 9.00 | 479.10 | 0.06 |
| 19 | 9.50 | 479.30 | 0.04 |
| 20 | 10.00 | 479.60 | 0.06 |
| 21 | 10.50 | 479.90 | 0.06 |
| 22 | 11.00 | 480.10 | 0.04 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.399194 micrograms carbon
BLANK FACTOR = 4.399194 / 10.99799 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 480.1 - 4.39986 )(1)/(1000) = +4.757E-01 g/L Carbon
( 480.1 - 4.39986 )(1)/(1000)(12) = +3.964E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 10/28/95  Time: 03:49:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 1.20 | 75.00 |
| 3 | 1.51 | 1.90 | 36.84 |
| 4 | 2.00 | 2.40 | 20.83 |
| 5 | 2.50 | 2.80 | 14.29 |
| 6 | 3.00 | 3.00 | 6.67 |
| 7 | 3.50 | 3.30 | 9.09 |
| 8 | 4.00 | 3.40 | 2.94 |
| 9 | 4.50 | 3.60 | 5.56 |
| 10 | 5.00 | 3.80 | 5.26 |
| 11 | 5.50 | 3.90 | 2.56 |
| 12 | 6.00 | 4.10 | 4.88 |
| 13 | 6.50 | 4.30 | 4.65 |
| 14 | 7.00 | 4.40 | 2.27 |
| 15 | 7.50 | 4.60 | 4.35 |
| 16 | 8.00 | 4.70 | 2.13 |
| 17 | 8.50 | 4.90 | 4.08 |
| 18 | 9.00 | 5.00 | 2.00 |
| 19 | 9.50 | 5.10 | 1.96 |
| 20 | 10.00 | 5.30 | 3.77 |
| 21 | 10.50 | 5.40 | 1.85 |
| 22 | 11.00 | 5.50 | 1.82 |

BLANK VALUE = 5.5 micrograms carbon
BLANK FACTOR = 5.5 / 10.99883 = +5.0E-01 ug/min Carbon

Sample Run By: _____
DP BROMLEY 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK  Date: 10/28/95  Time: 04:03:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.00 | 0.60 | 100.00 |
| 3 | 1.50 | 2.40 | 75.00 |
| 4 | 2.00 | 5.30 | 54.72 |
| 5 | 2.50 | 8.60 | 38.37 |
| 6 | 3.00 | 10.60 | 18.87 |
| 7 | 3.50 | 11.90 | 10.92 |
| 8 | 4.00 | 12.80 | 7.03 |
| 9 | 4.50 | 13.50 | 5.19 |
| 10 | 5.00 | 14.10 | 4.26 |
| 11 | 5.50 | 14.60 | 3.42 |
| 12 | 6.00 | 15.20 | 3.95 |
| 13 | 6.50 | 15.80 | 3.80 |
| 14 | 7.00 | 16.10 | 1.86 |
| 15 | 7.50 | 16.60 | 3.01 |
| 16 | 8.00 | 16.90 | 1.78 |
| 17 | 8.50 | 17.20 | 1.74 |
| 18 | 9.00 | 17.50 | 1.71 |
| 19 | 9.50 | 17.70 | 1.13 |
| 20 | 10.00 | 17.90 | 1.12 |
| 21 | 10.50 | 18.10 | 1.10 |
| 22 | 11.00 | 18.30 | 1.09 |

BLANK VALUE = 18.3 micrograms carbon
BLANK FACTOR = 18.3 / 10.99883 = +1.66E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

.0647 g

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SAM  Date: 10/28/95  Time: 05:46:35

Sample Size = 64.7 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 2.70 | 92.59 |
| 3 | 1.50 | 53.50 | 94.95 |
| 4 | 2.00 | 151.70 | 64.73 |
| 5 | 2.50 | 238.50 | 36.39 |
| 6 | 3.00 | 291.80 | 18.27 |
| 7 | 3.50 | 316.70 | 7.86 |
| 8 | 4.00 | 327.40 | 3.27 |
| 9 | 4.50 | 331.50 | 1.24 |
| 10 | 5.00 | 333.70 | 0.66 |
| 11 | 5.50 | 335.00 | 0.39 |
| 12 | 6.00 | 336.00 | 0.30 |
| 13 | 6.50 | 336.70 | 0.21 |
| 14 | 7.00 | 337.30 | 0.18 |
| 15 | 7.50 | 337.90 | 0.18 |
| 16 | 8.00 | 338.40 | 0.15 |
| 17 | 8.50 | 338.90 | 0.15 |
| 18 | 9.00 | 339.20 | 0.09 |
| 19 | 9.50 | 339.60 | 0.12 |
| 20 | 10.00 | 339.90 | 0.09 |
| 21 | 10.50 | 340.30 | 0.12 |
| 22 | 11.00 | 340.50 | 0.06 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 340.5 - 4.399866 )(1)/(64.7) = +5.195E+00 g/L Carbon
( 340.5 - 4.399866 )(1)/(64.7)(12) = +4.329E-01 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

340/0.0647g = 775

.0647g

WHC-CD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SAM  Date: 10/28/95  Time: 06:01:20

Sample Size = 64.7 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 7.70 | 100.00 |
| 3 | 1.50 | 88.90 | 91.34 |
| 4 | 2.00 | 187.40 | 52.56 |
| 5 | 2.50 | 245.90 | 23.79 |
| 6 | 3.01 | 269.00 | 8.59 |
| 7 | 3.51 | 277.30 | 2.99 |
| 8 | 4.00 | 280.70 | 1.21 |
| 9 | 4.50 | 282.90 | 0.78 |
| 10 | 5.00 | 284.50 | 0.56 |
| 11 | 5.50 | 286.00 | 0.52 |
| 12 | 6.00 | 287.10 | 0.38 |
| 13 | 6.50 | 288.00 | 0.31 |
| 14 | 7.00 | 288.80 | 0.28 |
| 15 | 7.50 | 289.60 | 0.28 |
| 16 | 8.00 | 290.10 | 0.17 |
| 17 | 8.50 | 290.70 | 0.21 |
| 18 | 9.00 | 291.10 | 0.14 |
| 19 | 9.50 | 291.40 | 0.10 |
| 20 | 10.00 | 291.80 | 0.14 |
| 21 | 10.50 | 292.20 | 0.14 |
| 22 | 11.00 | 292.60 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18 RWS 10/31/95
( 292.6 - ~~28~~.16125 )(1)/(64.7) = +4.087E+00 g/L Carbon
( 292.6 - 28.16125 )(1)/(64.7)(12) = +3.406E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

292.6 - 18.3 = 274 E2 / 0.0647g = 4.24 E3 mg C/g
776

.1195 g

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967DUP  Date: 10/28/95  Time: 06:23:48

Sample Size = 119.5 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 4.00 | 100.00 |
| 3 | 1.51 | 127.20 | 96.86 |
| 4 | 2.00 | 385.80 | 67.03 |
| 5 | 2.50 | 631.50 | 38.91 |
| 6 | 3.00 | 797.00 | 20.77 |
| 7 | 3.50 | 883.60 | 9.80 |
| 8 | 4.00 | 921.90 | 4.15 |
| 9 | 4.50 | 935.90 | 1.50 |
| 10 | 5.00 | 941.80 | 0.63 |
| 11 | 5.50 | 945.20 | 0.36 |
| 12 | 6.00 | 947.20 | 0.21 |
| 13 | 6.50 | 949.00 | 0.19 |
| 14 | 7.00 | 950.40 | 0.15 |
| 15 | 7.50 | 951.80 | 0.15 |
| 16 | 8.00 | 952.80 | 0.10 |
| 17 | 8.50 | 953.70 | 0.09 |
| 18 | 9.00 | 954.60 | 0.09 |
| 19 | 9.50 | 955.40 | 0.08 |
| 20 | 10.00 | 956.20 | 0.08 |
| 21 | 10.50 | 956.80 | 0.06 |
| 22 | 11.00 | 957.50 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 957.5 - 4.399939 )(1)/(119.5) = +7.976E+00 g/L Carbon
( 957.5 - 4.399939 )(1)/(119.5)(12) = +6.646E-01 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

,1195g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967DUP  Date: 10/28/95  Time: 06:52:17

Sample Size = 119.5 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.40 | 100.00 |
| 3 | 1.50 | 69.90 | 98.00 |
| 4 | 2.00 | 235.20 | 70.28 |
| 5 | 2.50 | 399.50 | 41.13 |
| 6 | 3.00 | 504.50 | 20.81 |
| 7 | 3.50 | 553.60 | 8.87 |
| 8 | 4.00 | 571.30 | 3.10 |
| 9 | 4.50 | 578.30 | 1.21 |
| 10 | 5.00 | 581.90 | 0.62 |
| 11 | 5.50 | 584.50 | 0.44 |
| 12 | 6.00 | 586.60 | 0.36 |
| 13 | 6.50 | 588.50 | 0.32 |
| 14 | 7.00 | 590.00 | 0.25 |
| 15 | 7.50 | 591.00 | 0.17 |
| 16 | 8.00 | 592.20 | 0.20 |
| 17 | 8.50 | 593.10 | 0.15 |
| 18 | 9.00 | 593.80 | 0.12 |
| 19 | 9.50 | 594.40 | 0.10 |
| 20 | 10.00 | 595.00 | 0.10 |
| 21 | 10.50 | 595.60 | 0.10 |
| 22 | 11.00 | 596.10 | 0.08 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWS 10/31/95
( 596.1 - ~~28.15961~~ )(1)/(119.5) = +4.753E+00 g/L Carbon
( 596.1 - 28.15961 )(1)/(119.5)(12) = +3.961E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

596.1 - 18.3 / 0.1195g = 4.84E3 mg/g
778

.0580g + .5 mL 17N12-A



TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SPK Date: 10/28/95 Time: 07:08:22

Sample Size = 58.0 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 7.00 | 100.00 |
| 3 | 1.51 | 122.80 | 94.30 |
| 4 | 2.00 | 336.90 | 63.55 |
| 5 | 2.50 | 511.10 | 34.08 |
| 6 | 3.00 | 609.00 | 16.08 |
| 7 | 3.50 | 660.70 | 7.83 |
| 8 | 4.00 | 680.70 | 2.94 |
| 9 | 4.50 | 688.10 | 1.08 |
| 10 | 5.00 | 691.60 | 0.51 |
| 11 | 5.50 | 693.80 | 0.32 |
| 12 | 6.00 | 695.60 | 0.26 |
| 13 | 6.50 | 697.10 | 0.22 |
| 14 | 7.00 | 698.30 | 0.17 |
| 15 | 7.50 | 699.30 | 0.14 |
| 16 | 8.00 | 700.20 | 0.13 |
| 17 | 8.50 | 701.00 | 0.11 |
| 18 | 9.00 | 701.80 | 0.11 |
| 19 | 9.50 | 702.60 | 0.11 |
| 20 | 10.00 | 703.20 | 0.09 |
| 21 | 10.50 | 703.80 | 0.09 |
| 22 | 11.00 | 704.40 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 704.4 - 4.400257 )(1)/(58.0) = +1.207E+01 g/L Carbon
( 704.4 - 4.400257 )(1)/(58.0)(12) = +1.006E+00 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

.0580 g + .1 mL 16N12-B

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SPK Date: 10/28/95 Time: 07:25:36

Sample Size = 58.0 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.50 | 100.00 |
| 3 | 1.50 | 35.40 | 95.76 |
| 4 | 2.00 | 148.30 | 76.13 |
| 5 | 2.50 | 267.40 | 44.54 |
| 6 | 3.00 | 315.20 | 15.16 |
| 7 | 3.50 | 456.90 | 31.01 |
| 8 | 4.00 | 535.20 | 14.63 |
| 9 | 4.50 | 570.20 | 6.14 |
| 10 | 5.00 | 580.80 | 1.83 |
| 11 | 5.50 | 585.20 | 0.75 |
| 12 | 6.00 | 588.10 | 0.49 |
| 13 | 6.50 | 590.10 | 0.34 |
| 14 | 7.00 | 591.70 | 0.27 |
| 15 | 7.50 | 592.90 | 0.20 |
| 16 | 8.00 | 594.10 | 0.20 |
| 17 | 8.50 | 595.10 | 0.17 |
| 18 | 9.00 | 595.90 | 0.13 |
| 19 | 9.50 | 596.70 | 0.13 |
| 20 | 10.00 | 597.50 | 0.13 |
| 21 | 10.50 | 598.20 | 0.12 |
| 22 | 11.00 | 598.80 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWG 10/31/95
( 598.8 - ~~28.~~15703 )(1)/(58.0) = +9.839E+00 g/L Carbon
( 598.8 - 28.15703 )(1)/(58.0)(12) = +8.199E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

$$\frac{598.8}{\left(\frac{292.6}{0.0647}\right)0.0580 + 30c} = 106\% \text{ rec}$$

780

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968 Date: 10/28/95 Time: 20:22:54

Sample Size = ~~748 uL~~ .0748g
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.40 | 0.00 |
| 2 | 1.01 | 29.20 | 95.21 |
| 3 | 1.51 | 121.30 | 75.93 |
| 4 | 2.00 | 204.50 | 40.68 |
| 5 | 2.50 | 264.90 | 22.80 |
| 6 | 3.00 | 300.10 | 11.73 |
| 7 | 3.51 | 316.90 | 5.30 |
| 8 | 4.01 | 324.70 | 2.40 |
| 9 | 4.50 | 329.10 | 1.34 |
| 10 | 5.00 | 332.60 | 1.05 |
| 11 | 5.50 | 335.60 | 0.89 |
| 12 | 6.00 | 338.30 | 0.80 |
| 13 | 6.50 | 340.70 | 0.70 |
| 14 | 7.00 | 343.30 | 0.76 |
| 15 | 7.50 | 345.50 | 0.64 |
| 16 | 8.00 | 347.70 | 0.63 |
| 17 | 8.50 | 349.70 | 0.57 |
| 18 | 9.00 | 352.20 | 0.71 |
| 19 | 9.50 | 354.10 | 0.54 |
| 20 | 10.00 | 355.40 | 0.37 |
| 21 | 10.50 | 356.70 | 0.36 |
| 22 | 11.00 | 357.50 | 0.22 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.399146 micrograms carbon
BLANK FACTOR = 4.399146 / 10.99786 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 357.5 - 4.400293 )(1)/(748) = +4.721E-01 g/L Carbon
( 357.5 - 4.400293 )(1)/(748)(12) = +3.934E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968 Date: 10/28/95 Time: 20:38:20

Sample Size = ~~748 ul~~ .0748g
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 19.60 | 96.94 |
| 3 | 1.50 | 77.10 | 74.58 |
| 4 | 2.00 | 133.30 | 42.16 |
| 5 | 2.50 | 171.00 | 22.05 |
| 6 | 3.00 | 193.20 | 11.49 |
| 7 | 3.50 | 204.70 | 5.62 |
| 8 | 4.00 | 210.70 | 2.85 |
| 9 | 4.50 | 214.40 | 1.73 |
| 10 | 5.00 | 216.80 | 1.11 |
| 11 | 5.50 | 218.40 | 0.73 |
| 12 | 6.00 | 219.90 | 0.68 |
| 13 | 6.50 | 221.20 | 0.59 |
| 14 | 7.00 | 222.20 | 0.45 |
| 15 | 7.50 | 223.20 | 0.45 |
| 16 | 8.00 | 224.10 | 0.40 |
| 17 | 8.50 | 224.90 | 0.36 |
| 18 | 9.00 | 225.80 | 0.40 |
| 19 | 9.50 | 226.40 | 0.27 |
| 20 | 10.00 | 227.20 | 0.35 |
| 21 | 10.50 | 227.80 | 0.26 |
| 22 | 11.00 | 228.40 | 0.26 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15453 micrograms carbon
BLANK FACTOR = 28.15453 / 10.99786 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: RJS 10/31/95
( 228.4 - ~~28~~.16156 )(1)/(748) = +2.677E-01 g/L Carbon
( 228.4 - 28.16156 )(1)/(748)(12) = +2.231E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

782

228.4 - 18.3 / 0.0748 = 2.81 E3 mg C/g

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968DUP  Date: 10/28/95  Time: 20:52:12

Sample Size = ~~836 ul~~ .08365
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 27.20 | 97.79 |
| 3 | 1.51 | 152.80 | 82.20 |
| 4 | 2.00 | 276.50 | 44.74 |
| 5 | 2.50 | 363.50 | 23.93 |
| 6 | 3.00 | 411.70 | 11.71 |
| 7 | 3.50 | 414.20 | 0.60 |
| 8 | 4.00 | 415.00 | 0.19 |
| 9 | 4.50 | 415.20 | 0.05 |
| 10 | 5.00 | 415.20 | 0.00 |
| 11 | 5.50 | 415.40 | 0.05 |
| 12 | 6.00 | 419.60 | 1.00 |
| 13 | 6.50 | 420.70 | 0.26 |
| 14 | 7.00 | 420.70 | 0.00 |
| 15 | 7.50 | 420.70 | 0.00 |
| 16 | 8.00 | 420.70 | 0.00 |
| 17 | 8.50 | 420.70 | 0.00 |
| 18 | 9.00 | 420.70 | 0.00 |
| 19 | 9.50 | 426.40 | 1.34 |
| 20 | 10.00 | 426.40 | 0.00 |
| 21 | 10.50 | 426.40 | 0.00 |
| 22 | 11.00 | 426.40 | 0.00 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.399146 micrograms carbon
BLANK FACTOR = 4.399146 / 10.99786 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
( 426.4 - 4.400244 )(1)/(836) = +5.048E-01 g/L Carbon
( 426.4 - 4.400244 )(1)/(836)(12) = +4.207E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

WHC-CD-WM-DP-145, REV. 1

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968DUP  Date: 10/28/95  Time: 21:07:30

Sample Size = ~~836 uL~~ .08365
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.00 | 0.00 |
| 2 | 1.01 | 28.30 | 92.93 |
| 3 | 1.51 | 92.30 | 69.34 |
| 4 | 2.00 | 152.80 | 39.59 |
| 5 | 2.50 | 197.00 | 22.44 |
| 6 | 3.00 | 220.00 | 10.45 |
| 7 | 3.50 | 223.60 | 1.61 |
| 8 | 4.00 | 227.90 | 1.89 |
| 9 | 4.50 | 233.00 | 2.19 |
| 10 | 5.00 | 237.10 | 1.73 |
| 11 | 5.50 | 240.50 | 1.41 |
| 12 | 6.00 | 243.70 | 1.31 |
| 13 | 6.50 | 246.60 | 1.18 |
| 14 | 7.00 | 248.90 | 0.92 |
| 15 | 7.50 | 250.70 | 0.72 |
| 16 | 8.00 | 252.30 | 0.63 |
| 17 | 8.50 | 253.40 | 0.43 |
| 18 | 9.00 | 254.70 | 0.51 |
| 19 | 9.50 | 255.70 | 0.39 |
| 20 | 10.00 | 256.50 | 0.31 |
| 21 | 10.50 | 257.40 | 0.35 |
| 22 | 11.00 | 258.10 | 0.27 |

USER INPUT BLANK VALUE
BLANK VALUE = 28.15453 micrograms carbon
BLANK FACTOR = 28.15453 / 10.99786 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWS 10/31/95
( 258.1 - ~~28~~.16375 )(1)/(836) = +2.750E-01 g/L Carbon
( 258.1 - 28.16375 )(1)/(836)(12) = +2.292E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 784 00000

$$\frac{258.1 - 18.3}{0.0836} = 2.87\ E3\ \mu g C/g$$

# LABCORE Data Entry Template for Worklist# 2979

**Analyst:** JdS by [illegible] **Instrument:** TOC02 _____ **Book #** 16N12-B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 (include TIC data, spike only the TOC)

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 30 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.0e3 | 2.81e3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T001969 | 0 | | TOC-02 | SOLID | N/A | 1.99e3 | 40 | ug/g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T001969 | 0 | | TOC-02 | SOLID | 1.99e3 | 2.13e3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 | SAMPLE | S95T001970 | 0 | | TOC-02 | SOLID | N/A | 1.59e3 | 40 | ug/g |
| 95000118 | BY-108 (R) | 6 | DUP | S95T001970 | 0 | | TOC-02 | SOLID | 1.59e3 | 1.48e3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 7 | SPK | S95T001970 | 0 | | TOC-02 | SOLID | 100 | 80.47 | N/A | ~~ug/g~~ |

## Final page for worklist # 2979

[signature] 10-28-95
**Analyst Signature** **Date**

[signature] 11-7-95
**Analyst Signature** **Date**

Reviewed RW Schroeder
11/8/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2979

**Analyst:** Jds **Instrument:** TOC02 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 (include TIC data, spike only the TOC)

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 0 | 30 | N/A | ug/g | |
| | | 2 | STD | | | | TOC-02 | SOLID | 3000 | 2810 | N/A | ug/g | |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T001969 | 0 | | TOC-02 | SOLID | N/A | 1993 | 40 | ug/g | .1322g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T001969 | 0 | | TOC-02 | SOLID | 1993 | 2133 | N/A | ug/g | .1388g |
| 95000118 | BY-108 (R) | 5 | SPK | ~~S95T001969~~ S95T001970 | 0 | JS 10-27-95 | TOC-02 | SOLID | 300 | 241.2 | N/A | ug/g | .0724g |
| 95000118 | BY-108 (R) | 6 | SAMPLE | S95T001970 | 0 | | TOC-02 | SOLID | N/A | 1586 | 40 | ug/g | .1137g |
| 95000118 | BY-108 (R) | 7 | DUP | S95T001970 | 0 | | TOC-02 | SOLID | 1586 | 1484 | N/A | ug/g | .1180g |

## Final page for worklist # 2979

Analyst Signature 10-26-95 Date

Analyst Signature 11-7-95 Date

*Data Entry Comments:*

PK Brown Paste

Spiked # S95T001970

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 16N12B Date: 10/28/95 Time: 11:51:46

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 2.20 | 100.00 |
| 3 | 1.51 | 14.50 | 84.83 |
| 4 | 2.01 | 85.10 | 82.96 |
| 5 | 2.51 | 245.20 | 65.29 |
| 6 | 3.00 | 410.30 | 40.24 |
| 7 | 3.50 | 493.60 | 16.88 |
| 8 | 4.00 | 523.60 | 5.73 |
| 9 | 4.50 | 534.40 | 2.02 |
| 10 | 5.00 | 539.80 | 1.00 |
| 11 | 5.50 | 543.20 | 0.63 |
| 12 | 6.00 | 545.00 | 0.33 |
| 13 | 6.50 | 546.40 | 0.26 |
| 14 | 7.00 | 548.00 | 0.29 |
| 15 | 7.50 | 551.00 | 0.54 |
| 16 | 8.00 | 553.40 | 0.43 |
| 17 | 8.50 | 554.70 | 0.23 |
| 18 | 9.00 | 555.90 | 0.22 |
| 19 | 9.50 | 557.40 | 0.27 |
| 20 | 10.00 | 569.40 | 2.11 |
| 21 | 10.50 | 587.60 | 3.10 |
| 22 | 11.00 | 592.00 | 0.74 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 787 TO 799.**

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 592 - 30.03183 )(1)/(200) = +2.810E+00 g/L Carbon
( 592 - 30.03183 )(1)/(200)(12) = +2.342E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 10/28/95 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE  Date: 10/28/95  Time: 09:40:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.90 | 0.00 |
| 2 | 1.01 | 1.40 | 35.71 |
| 3 | 1.51 | 1.90 | 26.32 |
| 4 | 2.00 | 2.40 | 20.83 |
| 5 | 2.50 | 3.00 | 20.00 |
| 6 | 3.00 | 3.50 | 14.29 |
| 7 | 3.50 | 3.90 | 10.26 |
| 8 | 4.00 | 4.40 | 11.36 |
| 9 | 4.50 | 4.60 | 4.35 |
| 10 | 5.00 | 5.00 | 8.00 |
| 11 | 5.50 | 5.40 | 7.41 |
| 12 | 6.00 | 5.60 | 3.57 |
| 13 | 6.50 | 5.90 | 5.08 |
| 14 | 7.00 | 6.20 | 4.84 |
| 15 | 7.50 | 6.50 | 4.62 |
| 16 | 8.00 | 6.70 | 2.99 |
| 17 | 8.50 | 7.00 | 4.29 |
| 18 | 9.00 | 7.20 | 2.78 |
| 19 | 9.50 | 7.40 | 2.70 |
| 20 | 10.00 | 7.70 | 3.90 |
| 21 | 10.50 | 7.80 | 1.28 |
| 22 | 11.00 | 8.00 | 2.50 |

BLANK VALUE = 8 micrograms carbon
BLANK FACTOR = 8 / 10.9989 = +7.3E-01 ug/min Carbon

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE  Date: 10/28/95  Time: 09:52:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.80 | 100.00 |
| 3 | 1.51 | 7.60 | 76.32 |
| 4 | 2.01 | 14.20 | 46.48 |
| 5 | 2.51 | 18.60 | 23.66 |
| 6 | 3.01 | 20.90 | 11.00 |
| 7 | 3.51 | 22.70 | 7.93 |
| 8 | 4.01 | 23.60 | 3.81 |
| 9 | 4.51 | 25.00 | 5.60 |
| 10 | 5.01 | 25.70 | 2.72 |
| 11 | 5.51 | 26.50 | 3.02 |
| 12 | 6.01 | 27.00 | 1.85 |
| 13 | 6.51 | 27.50 | 1.82 |
| 14 | 7.00 | 28.00 | 1.79 |
| 15 | 7.50 | 28.30 | 1.06 |
| 16 | 8.00 | 28.60 | 1.05 |
| 17 | 8.50 | 28.90 | 1.04 |
| 18 | 9.00 | 29.20 | 1.03 |
| 19 | 9.50 | 29.40 | 0.68 |
| 20 | 10.00 | 29.70 | 1.01 |
| 21 | 10.50 | 29.80 | 0.34 |
| 22 | 11.00 | 30.00 | 0.67 |

BLANK VALUE = 30 micrograms carbon
BLANK FACTOR = 30 / 11.0025 = +2.73E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLK Date: 10/28/95 Time: 14:11:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 1.70 | 76.47 |
| 3 | 1.50 | 2.70 | 37.04 |
| 4 | 2.00 | 4.70 | 42.55 |
| 5 | 2.50 | 8.70 | 45.98 |
| 6 | 3.01 | 13.90 | 37.41 |
| 7 | 3.51 | 18.60 | 25.27 |
| 8 | 4.00 | 21.20 | 12.26 |
| 9 | 4.50 | 22.60 | 6.19 |
| 10 | 5.00 | 23.40 | 3.42 |
| 11 | 5.50 | 23.90 | 2.09 |
| 12 | 6.00 | 24.50 | 2.45 |
| 13 | 6.50 | 25.00 | 2.00 |
| 14 | 7.00 | 25.40 | 1.57 |
| 15 | 7.50 | 25.80 | 1.55 |
| 16 | 8.00 | 26.00 | 0.77 |
| 17 | 8.50 | 26.40 | 1.52 |
| 18 | 9.00 | 26.60 | 0.75 |
| 19 | 9.50 | 26.90 | 1.12 |
| 20 | 10.00 | 27.20 | 1.10 |
| 21 | 10.50 | 27.30 | 0.37 |
| 22 | 11.00 | 27.40 | 0.36 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 27.4 - 30.03417 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 27.4 - 30.03417 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969 Date: 10/28/95 Time: 14:31:43

Sample Size = ~~322 uL~~ .1322g .10 285
Dil Factor = 1
Blank ID # =
Blank Value = .73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 2.60 | 88.46 |
| 3 | 1.51 | 65.20 | 96.01 |
| 4 | 2.00 | 223.70 | 70.85 |
| 5 | 2.50 | 372.10 | 39.88 |
| 6 | 3.00 | 474.70 | 21.61 |
| 7 | 3.50 | 538.10 | 11.78 |
| 8 | 4.00 | 579.00 | 7.06 |
| 9 | 4.50 | 600.10 | 3.52 |
| 10 | 5.00 | 610.70 | 1.74 |
| 11 | 5.50 | 615.70 | 0.81 |
| 12 | 6.00 | 618.30 | 0.42 |
| 13 | 6.50 | 619.90 | 0.26 |
| 14 | 7.00 | 621.30 | 0.23 |
| 15 | 7.50 | 622.40 | 0.18 |
| 16 | 8.00 | 623.30 | 0.14 |
| 17 | 8.50 | 624.10 | 0.13 |
| 18 | 9.00 | 624.80 | 0.11 |
| 19 | 9.50 | 625.50 | 0.11 |
| 20 | 10.00 | 626.10 | 0.10 |
| 21 | 10.50 | 626.70 | 0.10 |
| 22 | 11.00 | 627.30 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 627.3 - 8.028574 )(1)/(322) = +1.923E+00 g/L Carbon
( 627.3 - 8.028574 )(1)/(322)(12) = +1.603E-01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969 Date: 10/28/95 Time: 14:44:24

Sample Size = ~~322 uL~~ 1322g SS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 28.40 | 98.94 |
| 3 | 1.50 | 133.10 | 78.66 |
| 4 | 2.00 | 219.40 | 39.33 |
| 5 | 2.50 | 260.70 | 15.84 |
| 6 | 3.00 | 275.10 | 5.23 |
| 7 | 3.50 | 280.10 | 1.79 |
| 8 | 4.00 | 282.90 | 0.99 |
| 9 | 4.50 | 285.00 | 0.74 |
| 10 | 5.00 | 286.80 | 0.63 |
| 11 | 5.50 | 287.70 | 0.31 |
| 12 | 6.00 | 288.70 | 0.35 |
| 13 | 6.50 | 289.50 | 0.28 |
| 14 | 7.00 | 290.20 | 0.24 |
| 15 | 7.50 | 290.80 | 0.21 |
| 16 | 8.00 | 291.30 | 0.17 |
| 17 | 8.50 | 291.80 | 0.17 |
| 18 | 9.00 | 292.20 | 0.14 |
| 19 | 9.50 | 292.60 | 0.14 |
| 20 | 10.00 | 292.90 | 0.10 |
| 21 | 10.50 | 293.20 | 0.10 |
| 22 | 11.00 | 293.50 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 293.5 - 30.029 )(1)/(322) = +8.182E-01 g/L Carbon
( 293.5 - 30.029 )(1)/(322)(12) = +6.819E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: D95T001969DUP  Date: 10/28/95  Time: 14:56:25

Sample Size = 388 ~~ml~~ 1388g JS-10-28-95  Analyst : JD SPELLMAN
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = .73 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 1.00 | 90.00 |
| 3 | 1.51 | 105.90 | 99.06 |
| 4 | 2.01 | 338.10 | 68.68 |
| 5 | 2.51 | 510.00 | 33.71 |
| 6 | 3.01 | 616.80 | 17.32 |
| 7 | 3.51 | 682.50 | 9.63 |
| 8 | 4.00 | 720.20 | 5.23 |
| 9 | 4.50 | 740.20 | 2.70 |
| 10 | 5.00 | 751.60 | 1.52 |
| 11 | 5.50 | 759.10 | 0.99 |
| 12 | 6.00 | 765.10 | 0.78 |
| 13 | 6.50 | 770.80 | 0.74 |
| 14 | 7.00 | 774.10 | 0.43 |
| 15 | 7.50 | 776.40 | 0.30 |
| 16 | 8.00 | 777.90 | 0.19 |
| 17 | 8.50 | 779.20 | 0.17 |
| 18 | 9.00 | 780.00 | 0.10 |
| 19 | 9.50 | 780.80 | 0.10 |
| 20 | 10.00 | 781.50 | 0.09 |
| 21 | 10.50 | 782.30 | 0.10 |
| 22 | 11.00 | 782.80 | 0.06 |

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 782.8 - 8.029778 )(1)/(388) = +1.997E+00 g/L Carbon
( 782.8 - 8.029778 )(1)/(388)(12) = +1.664E-01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969DUP  Date: 10/28/95  Time: 15:08:59

Sample Size = ~~388 uL~~ .13885 SS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.00 | 8.00 | 92.50 |
| 3 | 1.50 | 86.30 | 90.73 |
| 4 | 2.00 | 193.80 | 55.47 |
| 5 | 2.50 | 266.90 | 27.39 |
| 6 | 3.00 | 297.50 | 10.29 |
| 7 | 3.50 | 307.80 | 3.35 |
| 8 | 4.00 | 312.20 | 1.41 |
| 9 | 4.50 | 315.30 | 0.98 |
| 10 | 5.00 | 317.10 | 0.57 |
| 11 | 5.50 | 318.60 | 0.47 |
| 12 | 6.00 | 319.90 | 0.41 |
| 13 | 6.50 | 321.00 | 0.34 |
| 14 | 7.00 | 321.90 | 0.28 |
| 15 | 7.50 | 322.60 | 0.22 |
| 16 | 8.00 | 323.20 | 0.19 |
| 17 | 8.50 | 323.80 | 0.19 |
| 18 | 9.00 | 324.40 | 0.18 |
| 19 | 9.50 | 324.90 | 0.15 |
| 20 | 10.00 | 325.20 | 0.09 |
| 21 | 10.50 | 325.60 | 0.12 |
| 22 | 11.00 | 326.10 | 0.15 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 326.1 - 30.029 )(1)/(388) = +7.631E-01 g/L Carbon
( 326.1 - 30.029 )(1)/(388)(12) = +6.359E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970 Date: 10/28/95 Time: 16:55:26

Sample Size = ~~137 uL~~ -11375 JS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = .73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 17.20 | 98.84 |
| 3 | 1.50 | 85.80 | 79.95 |
| 4 | 2.00 | 162.70 | 47.26 |
| 5 | 2.50 | 217.60 | 25.23 |
| 6 | 3.00 | 250.50 | 13.13 |
| 7 | 3.50 | 267.20 | 6.25 |
| 8 | 4.00 | 275.10 | 2.87 |
| 9 | 4.50 | 279.40 | 1.54 |
| 10 | 5.00 | 282.40 | 1.06 |
| 11 | 5.50 | 285.10 | 0.95 |
| 12 | 6.00 | 287.20 | 0.73 |
| 13 | 6.50 | 289.30 | 0.73 |
| 14 | 7.00 | 290.10 | 0.28 |
| 15 | 7.50 | 291.00 | 0.31 |
| 16 | 8.00 | 291.80 | 0.27 |
| 17 | 8.50 | 292.40 | 0.21 |
| 18 | 9.00 | 293.10 | 0.24 |
| 19 | 9.50 | 293.50 | 0.14 |
| 20 | 10.00 | 294.10 | 0.20 |
| 21 | 10.50 | 294.70 | 0.20 |
| 22 | 11.00 | 295.80 | 0.37 |

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 295.8 - 8.029109 )(1)/(137) = +2.101E+00 g/L Carbon
( 295.8 - 8.029109 )(1)/(137)(12) = +1.750E-01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970SPK  Date: 10/28/95  Time: 19:37:29

Sample Size = ~~724 ul~~ .0724g JS 10-28-95  Analyst : JD SPELLMAN
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = .73 ug/minute C  % Difference = 10

| Reading | Analysis Time | Coulometer | % Difference |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 11.90 | 100.00 |
| 3 | 1.50 | 54.90 | 78.32 |
| 4 | 2.01 | 91.40 | 39.93 |
| 5 | 2.51 | 113.60 | 19.54 |
| 6 | 3.01 | 125.60 | 9.55 |
| 7 | 3.51 | 132.00 | 4.85 |
| 8 | 4.00 | 135.30 | 2.44 |
| 9 | 4.50 | 137.50 | 1.60 |
| 10 | 5.00 | 139.60 | 1.50 |
| 11 | 5.50 | 142.50 | 2.04 |
| 12 | 6.00 | 144.70 | 1.52 |
| 13 | 6.50 | 147.10 | 1.63 |
| 14 | 7.00 | 150.50 | 2.26 |
| 15 | 7.50 | 152.60 | 1.38 |
| 16 | 8.00 | 155.30 | 1.74 |
| 17 | 8.50 | 158.90 | 2.27 |
| 18 | 9.00 | 161.20 | 1.43 |
| 19 | 9.50 | 163.30 | 1.29 |
| 20 | 10.00 | 164.60 | 0.79 |
| 21 | 10.50 | 167.40 | 1.67 |
| 22 | 11.00 | 170.30 | 1.70 |

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 170.3 - 8.029911 )(1)/(724) = +2.241E-01 g/L Carbon
( 170.3 - 8.029911 )(1)/(724)(12) = +1.868E-02 Molar Carbon

Sample Run By: JD SPELLMAN 00000

RDS 11/6/95

$\left(\frac{170}{0.0724}\right)($

$\frac{170}{\left(\frac{295.8}{0.1137}\right)(0.0724)} + 300 \times 100 =$

796 WHC-SD-WM-DP-NS, REV 2

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970SPK  Date: 10/28/95  Time: 19:51:16

Sample Size = ~~724 uL~~ .0724g JS 10-28-95  Analyst : JD SPELLMAN
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = 2.73 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 15.40 | 0.00 |
| 2 | 1.01 | 83.80 | 81.62 |
| 3 | 1.51 | 199.00 | 57.89 |
| 4 | 2.00 | 278.70 | 28.60 |
| 5 | 2.50 | 315.50 | 11.66 |
| 6 | 3.00 | 328.20 | 3.87 |
| 7 | 3.50 | 333.60 | 1.62 |
| 8 | 4.00 | 336.40 | 0.83 |
| 9 | 4.50 | 338.70 | 0.68 |
| 10 | 5.00 | 340.10 | 0.41 |
| 11 | 5.50 | 341.30 | 0.35 |
| 12 | 6.00 | 342.70 | 0.41 |
| 13 | 6.50 | 343.60 | 0.26 |
| 14 | 7.00 | 344.70 | 0.32 |
| 15 | 7.50 | 345.30 | 0.17 |
| 16 | 8.00 | 346.00 | 0.20 |
| 17 | 8.50 | 346.60 | 0.17 |
| 18 | 9.00 | 347.00 | 0.12 |
| 19 | 9.50 | 347.50 | 0.14 |
| 20 | 10.00 | 347.90 | 0.11 |
| 21 | 10.50 | 348.30 | 0.11 |
| 22 | 11.00 | 348.80 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 348.8 - 30.02967 )(1)/(724) = +4.403E-01 g/L Carbon
( 348.8 - 30.02967 )(1)/(724)(12) = +3.669E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV 1

$$\frac{348.8}{\left(\frac{210.3}{0.1137}\right)(0.0724)+300} \times 100 = 80.4\%$$

796.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970 Date: 10/28/95 Time: 17:12:12

Sample Size = ~~137 uL~~ .11375 JS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.00 | 0.00 |
| 2 | 1.01 | 51.10 | 92.17 |
| 3 | 1.51 | 120.20 | 57.49 |
| 4 | 2.01 | 167.90 | 28.41 |
| 5 | 2.50 | 187.50 | 10.45 |
| 6 | 3.00 | 194.50 | 3.60 |
| 7 | 3.50 | 198.40 | 1.97 |
| 8 | 4.00 | 200.40 | 1.00 |
| 9 | 4.50 | 202.00 | 0.79 |
| 10 | 5.00 | 203.30 | 0.64 |
| 11 | 5.50 | 204.20 | 0.44 |
| 12 | 6.00 | 205.10 | 0.44 |
| 13 | 6.50 | 205.80 | 0.34 |
| 14 | 7.00 | 206.40 | 0.29 |
| 15 | 7.50 | 207.30 | 0.43 |
| 16 | 8.00 | 207.80 | 0.24 |
| 17 | 8.50 | 208.30 | 0.24 |
| 18 | 9.00 | 208.70 | 0.19 |
| 19 | 9.50 | 209.20 | 0.24 |
| 20 | 10.00 | 209.60 | 0.19 |
| 21 | 10.50 | 210.00 | 0.19 |
| 22 | 11.00 | 210.30 | 0.14 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 210.3 - 30.02683 )(1)/(137) = +1.316E+00 g/L Carbon
( 210.3 - 30.02683 )(1)/(137)(12) = +1.097E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970DUP  Date: 10/28/95  Time: 18:07:44

Sample Size = ~~180 uL~~ 11805 JS 10-28-95  Analyst : JD SPELLMAN
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = .73 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 27.80 | 97.84 |
| 3 | 1.51 | 124.20 | 77.62 |
| 4 | 2.01 | 225.70 | 44.97 |
| 5 | 2.51 | 297.20 | 24.06 |
| 6 | 3.01 | 338.00 | 12.07 |
| 7 | 3.51 | 357.60 | 5.48 |
| 8 | 4.01 | 366.30 | 2.38 |
| 9 | 4.50 | 370.40 | 1.11 |
| 10 | 5.00 | 372.90 | 0.67 |
| 11 | 5.50 | 374.40 | 0.40 |
| 12 | 6.00 | 375.70 | 0.35 |
| 13 | 6.50 | 376.80 | 0.29 |
| 14 | 7.00 | 377.60 | 0.21 |
| 15 | 7.50 | 378.50 | 0.24 |
| 16 | 8.00 | 379.20 | 0.18 |
| 17 | 8.50 | 380.00 | 0.21 |
| 18 | 9.00 | 380.50 | 0.13 |
| 19 | 9.50 | 381.20 | 0.18 |
| 20 | 10.00 | 381.70 | 0.13 |
| 21 | 10.50 | 382.30 | 0.16 |
| 22 | 11.00 | 382.90 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 382.9 - 8.031248 )(1)/(180) = +2.083E+00 g/L Carbon
( 382.9 - 8.031248 )(1)/(180)(12) = +1.736E-01 Molar Carbon

Sample Run By: JD SPELLMAN 00000



WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970DUP  Date: 10/28/95  Time: 19:25:13

Sample Size = ~~180 uL~~ 118.05 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.20 | 0.00 |
| 2 | 1.01 | 49.30 | 91.48 |
| 3 | 1.51 | 112.60 | 56.22 |
| 4 | 2.00 | 157.90 | 28.69 |
| 5 | 2.50 | 178.70 | 11.64 |
| 6 | 3.00 | 187.20 | 4.54 |
| 7 | 3.50 | 191.20 | 2.09 |
| 8 | 4.00 | 193.90 | 1.39 |
| 9 | 4.50 | 195.40 | 0.77 |
| 10 | 5.00 | 196.80 | 0.71 |
| 11 | 5.50 | 197.80 | 0.51 |
| 12 | 6.00 | 198.90 | 0.55 |
| 13 | 6.50 | 200.00 | 0.55 |
| 14 | 7.00 | 201.10 | 0.55 |
| 15 | 7.50 | 201.60 | 0.25 |
| 16 | 8.00 | 202.30 | 0.35 |
| 17 | 8.50 | 202.90 | 0.30 |
| 18 | 9.00 | 203.40 | 0.25 |
| 19 | 9.50 | 204.00 | 0.29 |
| 20 | 10.00 | 204.40 | 0.20 |
| 21 | 10.50 | 204.80 | 0.20 |
| 22 | 11.00 | 205.20 | 0.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
( 205.2 - 30.029 )(1)/(180) = +9.732E-01 g/L Carbon
( 205.2 - 30.029 )(1)/(180)(12) = +8.110E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV. 1

# LABCORE Data Entry Template for Worklist# 2980

**Analyst:** KRM **Instrument:** TOC02 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 (include TIC data, spike only the TOC)

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK | | | | TOC-02 | SOLID | 1 | 4.1 | N/A | ug/g |
| | | 2 STD | | | | TOC-02 | SOLID | 3.00E3 | 2.71E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 SAMPLE | S95T001971 | 0 | | TOC-02 | SOLID | N/A | 6.55E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 4 DUP | S95T001971 | 0 | | TOC-02 | SOLID | 6.55E3 | 6.24E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 SPK | S95T001971 | 0 | | TOC-02 | SOLID | 100 | 94.7 | N/A | ug/g |
| 95000118 | BY-108 (R) | 6 SAMPLE | S95T001972 | 0 | | TOC-02 | SOLID | N/A | 4.76E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 7 DUP | S95T001972 | 0 | | TOC-02 | SOLID | 4.76E3 | 4.97E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 8 SAMPLE | S95T001978 | 0 | | TOC-02 | SOLID | N/A | 7.72E3 | 40.0 | ug/g |
| 95000118 | BY-108 (R) | 9 DUP | S95T001978 | 0 | | TOC-02 | SOLID | 7.72E3 | 7.58E3 | N/A | ug/g |

## Final page for worklist # 2980

10-29-95
Analyst Signature Date

11-1-95
Analyst Signature Date

Reviewed RW Schroeder 11/6/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-CD-V.M-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 10/29/95  Time: 00:29:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 0.30 | 33.33 |
| 3 | 1.51 | 0.50 | 40.00 |
| 4 | 2.01 | 0.80 | 37.50 |
| 5 | 2.50 | 1.00 | 20.00 |
| 6 | 3.00 | 1.10 | 9.09 |
| 7 | 3.50 | 1.20 | 8.33 |
| 8 | 4.00 | 1.30 | 7.69 |
| 9 | 4.50 | 1.50 | 13.33 |
| 10 | 5.00 | 1.60 | 6.25 |
| 11 | 5.50 | 1.60 | 0.00 |
| 12 | 6.00 | 1.70 | 5.88 |
| 13 | 6.50 | 1.80 | 5.56 |
| 14 | 7.00 | 1.80 | 0.00 |
| 15 | 7.50 | 1.90 | 5.26 |
| 16 | 8.00 | 2.00 | 5.00 |
| 17 | 8.50 | 2.10 | 4.76 |
| 18 | 9.00 | 2.20 | 4.55 |
| 19 | 9.50 | 2.20 | 0.00 |
| 20 | 10.00 | 2.30 | 4.35 |
| 21 | 10.50 | 2.30 | 0.00 |
| 22 | 11.00 | 2.50 | 8.00 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 801 TO 820.**

BLANK VALUE = 2.5 micrograms carbon
BLANK FACTOR = 2.5 / 10.99967 = +2.3E-01 ug/min Carbon

Sample Run By: KR MONTEITH 10-29-95 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 10/29/95  Time: 00:41:11

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.00 | 0.00 |
| 3 | 1.50 | 1.90 | 100.00 |
| 4 | 2.00 | 4.90 | 61.22 |
| 5 | 2.50 | 7.10 | 30.99 |
| 6 | 3.00 | 8.50 | 16.47 |
| 7 | 3.50 | 9.70 | 12.37 |
| 8 | 4.00 | 10.40 | 6.73 |
| 9 | 4.50 | 10.70 | 2.80 |
| 10 | 5.00 | 11.10 | 3.60 |
| 11 | 5.50 | 11.30 | 1.77 |
| 12 | 6.00 | 11.80 | 4.24 |
| 13 | 6.50 | 12.20 | 3.28 |
| 14 | 7.00 | 12.70 | 3.94 |
| 15 | 7.50 | 12.70 | 0.00 |
| 16 | 8.00 | 12.90 | 1.55 |
| 17 | 8.50 | 13.00 | 0.77 |
| 18 | 9.00 | 13.90 | 6.47 |
| 19 | 9.50 | 16.30 | 14.72 |
| 20 | 10.00 | 18.00 | 9.44 |
| 21 | 10.50 | 19.00 | 5.26 |
| 22 | 11.00 | 19.60 | 3.06 |

BLANK VALUE = 19.6 micrograms carbon
BLANK FACTOR = 19.6 / 10.99783 = +1.78E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 10/29/95  Time: 00:53:32

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 32.20 | 100.00 |
| 3 | 1.50 | 220.90 | 85.42 |
| 4 | 2.00 | 401.40 | 44.97 |
| 5 | 2.50 | 493.40 | 18.65 |
| 6 | 3.00 | 538.00 | 8.29 |
| 7 | 3.50 | 554.40 | 2.96 |
| 8 | 4.00 | 559.80 | 0.96 |
| 9 | 4.50 | 562.10 | 0.41 |
| 10 | 5.00 | 563.50 | 0.25 |
| 11 | 5.50 | 564.50 | 0.18 |
| 12 | 6.00 | 565.20 | 0.12 |
| 13 | 6.50 | 565.90 | 0.12 |
| 14 | 7.00 | 566.40 | 0.09 |
| 15 | 7.50 | 567.00 | 0.11 |
| 16 | 8.00 | 567.50 | 0.09 |
| 17 | 8.50 | 568.30 | 0.14 |
| 18 | 9.00 | 569.00 | 0.12 |
| 19 | 9.50 | 569.50 | 0.09 |
| 20 | 10.00 | 569.80 | 0.05 |
| 21 | 10.50 | 570.20 | 0.07 |
| 22 | 11.00 | 570.50 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 570.5 - 2.529962 )(1)/(1000) = +5.680E-01 g/L Carbon
( 570.5 - 2.529962 )(1)/(1000)(12) = +4.733E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 10/29/95  Time: 02:18:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 6.30 | 100.00 |
| 3 | 1.51 | 72.40 | 91.30 |
| 4 | 2.00 | 256.40 | 71.76 |
| 5 | 2.50 | 499.10 | 48.63 |
| 6 | 3.00 | 673.70 | 25.92 |
| 7 | 3.50 | 758.30 | 11.16 |
| 8 | 4.00 | 798.10 | 4.99 |
| 9 | 4.50 | 811.70 | 1.68 |
| 10 | 5.00 | 817.30 | 0.69 |
| 11 | 5.50 | 820.40 | 0.38 |
| 12 | 6.00 | 822.10 | 0.21 |
| 13 | 6.50 | 824.10 | 0.24 |
| 14 | 7.00 | 825.50 | 0.17 |
| 15 | 7.50 | 826.70 | 0.15 |
| 16 | 8.00 | 827.90 | 0.14 |
| 17 | 8.50 | 828.90 | 0.12 |
| 18 | 9.00 | 829.80 | 0.11 |
| 19 | 9.50 | 830.50 | 0.08 |
| 20 | 10.00 | 831.20 | 0.08 |
| 21 | 10.50 | 831.80 | 0.07 |
| 22 | 11.00 | 832.40 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 832.4 - 19.57615 )(1)/~~(1)~~ 300 = ~~+8.128E+02~~ 2.71E0 g/L Carbon
( 832.4 - 19.57615 )(1)/(1)(12) = +6.774E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK  Date: 10/29/95  Time: 02:30:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.00 | 100.00 |
| 3 | 1.51 | 2.10 | 52.38 |
| 4 | 2.00 | 2.50 | 16.00 |
| 5 | 2.50 | 2.80 | 10.71 |
| 6 | 3.00 | 3.10 | 9.68 |
| 7 | 3.50 | 3.20 | 3.13 |
| 8 | 4.00 | 3.40 | 5.88 |
| 9 | 4.50 | 3.50 | 2.86 |
| 10 | 5.00 | 3.70 | 5.41 |
| 11 | 5.50 | 3.80 | 2.63 |
| 12 | 6.00 | 3.90 | 2.56 |
| 13 | 6.50 | 4.10 | 4.88 |
| 14 | 7.00 | 4.20 | 2.38 |
| 15 | 7.50 | 4.30 | 2.33 |
| 16 | 8.00 | 4.40 | 2.27 |
| 17 | 8.50 | 4.60 | 4.35 |
| 18 | 9.00 | 4.70 | 2.13 |
| 19 | 9.50 | 4.80 | 2.08 |
| 20 | 10.00 | 4.90 | 2.04 |
| 21 | 10.50 | 5.00 | 2.00 |
| 22 | 11.00 | 5.10 | 1.96 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 5.1 - 2.529961 )(1)/(1) = +2.6E+00 g/L Carbon
( 5.1 - 2.529961 )(1)/(1)(12) = +2.1E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/29/95 Time: 02:42:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.00 | 100.00 |
| 3 | 1.50 | 3.60 | 72.22 |
| 4 | 2.00 | 6.70 | 46.27 |
| 5 | 2.50 | 8.60 | 22.09 |
| 6 | 3.00 | 9.90 | 13.13 |
| 7 | 3.50 | 10.70 | 7.48 |
| 8 | 4.00 | 11.20 | 4.46 |
| 9 | 4.50 | 11.70 | 4.27 |
| 10 | 5.00 | 12.20 | 4.10 |
| 11 | 5.50 | 12.50 | 2.40 |
| 12 | 6.00 | 12.80 | 2.34 |
| 13 | 6.50 | 13.20 | 3.03 |
| 14 | 7.00 | 13.50 | 2.22 |
| 15 | 7.50 | 13.80 | 2.17 |
| 16 | 8.00 | 14.00 | 1.43 |
| 17 | 8.50 | 14.30 | 2.10 |
| 18 | 9.00 | 14.60 | 2.05 |
| 19 | 9.50 | 14.80 | 1.35 |
| 20 | 10.00 | 15.00 | 1.33 |
| 21 | 10.50 | 15.30 | 1.96 |
| 22 | 11.00 | 15.50 | 1.29 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 15.5 - 19.58266 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 15.5 - 19.58266 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 Date: 10/29/95 Time: 02:54:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 2.20 | 100.00 |
| 3 | 1.51 | 23.70 | 90.72 |
| 4 | 2.00 | 77.10 | 69.26 |
| 5 | 2.50 | 142.00 | 45.70 |
| 6 | 3.00 | 211.40 | 32.83 |
| 7 | 3.50 | 275.10 | 23.16 |
| 8 | 4.00 | 322.70 | 14.75 |
| 9 | 4.50 | 351.60 | 8.22 |
| 10 | 5.00 | 367.30 | 4.27 |
| 11 | 5.50 | 375.00 | 2.05 |
| 12 | 6.00 | 379.30 | 1.13 |
| 13 | 6.50 | 381.60 | 0.60 |
| 14 | 7.00 | 383.20 | 0.42 |
| 15 | 7.50 | 384.70 | 0.39 |
| 16 | 8.00 | 385.80 | 0.29 |
| 17 | 8.50 | 386.90 | 0.28 |
| 18 | 9.00 | 387.80 | 0.23 |
| 19 | 9.50 | 388.70 | 0.23 |
| 20 | 10.00 | 389.80 | 0.28 |
| 21 | 10.50 | 390.70 | 0.23 |
| 22 | 11.00 | 391.70 | 0.26 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 391.7 - 2.530154 )(1)/(1) = +3.892E+02 g/L Carbon
( 391.7 - 2.530154 )(1)/(1)(12) = +3.243E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 Date: 10/29/95 Time: 03:06:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 37.80 | 96.56 |
| 3 | 1.50 | 154.90 | 75.60 |
| 4 | 2.00 | 279.30 | 44.54 |
| 5 | 2.50 | 376.20 | 25.76 |
| 6 | 3.00 | 448.00 | 16.03 |
| 7 | 3.50 | 497.60 | 9.97 |
| 8 | 4.00 | 528.50 | 5.85 |
| 9 | 4.50 | 546.80 | 3.35 |
| 10 | 5.00 | 558.50 | 2.09 |
| 11 | 5.50 | 567.70 | 1.62 |
| 12 | 6.00 | 574.60 | 1.20 |
| 13 | 6.50 | 580.10 | 0.95 |
| 14 | 7.00 | 585.40 | 0.91 |
| 15 | 7.50 | 589.20 | 0.64 |
| 16 | 8.00 | 593.10 | 0.66 |
| 17 | 8.50 | 595.70 | 0.44 |
| 18 | 9.00 | 598.10 | 0.40 |
| 19 | 9.50 | 600.50 | 0.40 |
| 20 | 10.00 | 602.20 | 0.28 |
| 21 | 10.50 | 604.00 | 0.30 |
| 22 | 11.00 | 605.70 | 0.28 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 605.7 - 19.58119 )(1)/(1) = +5.861E+02 g/L Carbon
( 605.7 - 19.58119 )(1)/(1)(12) = +4.884E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

586.1 ug C / .0895 g = 6.55 E3 ug/g C

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WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 D  Date: 10/29/95  Time: 03:18:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 6.00 | 80.00 |
| 3 | 1.50 | 50.00 | 88.00 |
| 4 | 2.00 | 128.90 | 61.21 |
| 5 | 2.50 | 203.40 | 36.63 |
| 6 | 3.01 | 273.90 | 25.74 |
| 7 | 3.51 | 334.70 | 18.17 |
| 8 | 4.00 | 394.00 | 15.05 |
| 9 | 4.50 | 437.80 | 10.00 |
| 10 | 5.00 | 461.80 | 5.20 |
| 11 | 5.50 | 472.90 | 2.35 |
| 12 | 6.00 | 478.20 | 1.11 |
| 13 | 6.50 | 481.60 | 0.71 |
| 14 | 7.00 | 483.40 | 0.37 |
| 15 | 7.50 | 484.90 | 0.31 |
| 16 | 8.00 | 486.10 | 0.25 |
| 17 | 8.50 | 487.40 | 0.27 |
| 18 | 9.00 | 488.40 | 0.20 |
| 19 | 9.50 | 489.60 | 0.25 |
| 20 | 10.00 | 490.60 | 0.20 |
| 21 | 10.50 | 491.60 | 0.20 |
| 22 | 11.00 | 492.40 | 0.16 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 492.4 - 2.529923 )(1)/(1) = +4.899E+02 g/L Carbon
( 492.4 - 2.529923 )(1)/(1)(12) = +4.082E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 D  Date: 10/29/95  Time: 03:30:52

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.70 | 0.00 |
| 2 | 1.01 | 46.00 | 96.30 |
| 3 | 1.50 | 171.50 | 73.18 |
| 4 | 2.00 | 293.60 | 41.59 |
| 5 | 2.50 | 370.00 | 20.65 |
| 6 | 3.00 | 394.70 | 6.26 |
| 7 | 3.50 | 398.20 | 0.88 |
| 8 | 4.00 | 399.40 | 0.30 |
| 9 | 4.50 | 500.20 | 20.15 |
| 10 | 5.00 | 539.00 | 7.20 |
| 11 | 5.50 | 551.20 | 2.21 |
| 12 | 6.00 | 565.60 | 2.55 |
| 13 | 6.50 | 581.30 | 2.70 |
| 14 | 7.00 | 581.30 | 0.00 |
| 15 | 7.50 | 581.30 | 0.00 |
| 16 | 8.00 | 581.40 | 0.02 |
| 17 | 8.50 | 588.20 | 1.16 |
| 18 | 9.00 | 593.90 | 0.96 |
| 19 | 9.50 | 598.00 | 0.69 |
| 20 | 10.00 | 600.30 | 0.38 |
| 21 | 10.50 | 600.90 | 0.10 |
| 22 | 11.00 | 600.90 | 0.00 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 600.9 - 19.57644 )(1)/(1) = +5.813E+02 g/L Carbon
( 600.9 - 19.57644 )(1)/(1)(12) = +4.844E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{581.3\ \mu g\ C}{.0931\ g} = 6.24E3\ \mu g/g\ C$

810

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 + SPK  Date: 10/29/95  Time: 03:46:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 6.70 | 0.00 |
| 2 | 1.01 | 13.60 | 50.74 |
| 3 | 1.50 | 33.90 | 59.88 |
| 4 | 2.00 | 90.30 | 62.46 |
| 5 | 2.50 | 173.20 | 47.86 |
| 6 | 3.00 | 261.30 | 33.72 |
| 7 | 3.50 | 337.40 | 22.55 |
| 8 | 4.00 | 390.50 | 13.60 |
| 9 | 4.50 | 419.50 | 6.91 |
| 10 | 5.00 | 433.70 | 3.27 |
| 11 | 5.50 | 440.40 | 1.52 |
| 12 | 6.00 | 444.20 | 0.86 |
| 13 | 6.50 | 446.80 | 0.58 |
| 14 | 7.00 | 448.90 | 0.47 |
| 15 | 7.50 | 450.30 | 0.31 |
| 16 | 8.00 | 451.50 | 0.27 |
| 17 | 8.50 | 452.80 | 0.29 |
| 18 | 9.00 | 453.90 | 0.24 |
| 19 | 9.50 | 455.10 | 0.26 |
| 20 | 10.00 | 455.90 | 0.18 |
| 21 | 10.50 | 456.90 | 0.22 |
| 22 | 11.00 | 457.90 | 0.22 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 457.9 - 2.530154 )(1)/(1) = +4.554E+02 g/L Carbon
( 457.9 - 2.530154 )(1)/(1)(12) = +3.795E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHO-CD-WM-DP-145, REV. 1

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 + SPK  Date: 10/29/95  Time: 03:59:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.00 | 32.70 | 96.33 |
| 3 | 1.51 | 160.50 | 79.63 |
| 4 | 2.01 | 322.70 | 50.26 |
| 5 | 2.51 | 503.70 | 35.93 |
| 6 | 3.01 | 653.20 | 22.89 |
| 7 | 3.50 | 748.30 | 12.71 |
| 8 | 4.00 | 811.20 | 7.75 |
| 9 | 4.50 | 850.60 | 4.63 |
| 10 | 5.00 | 873.40 | 2.61 |
| 11 | 5.50 | 888.10 | 1.66 |
| 12 | 6.00 | 898.80 | 1.19 |
| 13 | 6.50 | 907.50 | 0.96 |
| 14 | 7.00 | 915.10 | 0.83 |
| 15 | 7.50 | 921.20 | 0.66 |
| 16 | 8.00 | 926.70 | 0.59 |
| 17 | 8.50 | 931.60 | 0.53 |
| 18 | 9.00 | 935.70 | 0.44 |
| 19 | 9.50 | 939.70 | 0.43 |
| 20 | 10.00 | 943.30 | 0.38 |
| 21 | 10.50 | 946.70 | 0.36 |
| 22 | 11.00 | 949.60 | 0.31 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 949.6 - 19.58266 )(1)/(1) = +9.300E+02 g/L Carbon
( 949.6 - 19.58266 )(1)/(1)(12) = +7.750E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

949.6 / [605.7 / .0895 - .1039 + 300] = 94.7 % Rec

812

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:11:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.20 | 0.00 |
| 2 | 1.01 | 14.50 | 84.83 |
| 3 | 1.50 | 134.80 | 89.24 |
| 4 | 2.00 | 335.50 | 59.82 |
| 5 | 2.50 | 521.40 | 35.65 |
| 6 | 3.00 | 622.80 | 16.28 |
| 7 | 3.50 | 680.50 | 8.48 |
| 8 | 4.00 | 705.90 | 3.60 |
| 9 | 4.50 | 714.90 | 1.26 |
| 10 | 5.00 | 719.20 | 0.60 |
| 11 | 5.50 | 722.40 | 0.44 |
| 12 | 6.00 | 725.20 | 0.39 |
| 13 | 6.50 | 727.60 | 0.33 |
| 14 | 7.00 | 730.00 | 0.33 |
| 15 | 7.50 | 732.60 | 0.35 |
| 16 | 8.00 | 735.00 | 0.33 |
| 17 | 8.50 | 737.40 | 0.33 |
| 18 | 9.00 | 739.50 | 0.28 |
| 19 | 9.50 | 741.60 | 0.28 |
| 20 | 10.00 | 743.50 | 0.26 |
| 21 | 10.50 | 745.80 | 0.31 |
| 22 | 11.00 | 748.10 | 0.31 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 748.1 - 2.529923 )(1)/(1) = +7.456E+02 g/L Carbon
( 748.1 - 2.529923 )(1)/(1)(12) = +6.213E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:23:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.40 | 0.00 |
| 2 | 1.00 | 48.60 | 95.06 |
| 3 | 1.50 | 145.00 | 66.48 |
| 4 | 2.00 | 223.00 | 34.98 |
| 5 | 2.50 | 268.70 | 17.01 |
| 6 | 3.00 | 287.80 | 6.64 |
| 7 | 3.50 | 296.30 | 2.87 |
| 8 | 4.00 | 300.90 | 1.53 |
| 9 | 4.50 | 303.90 | 0.99 |
| 10 | 5.00 | 306.40 | 0.82 |
| 11 | 5.50 | 308.50 | 0.68 |
| 12 | 6.00 | 310.00 | 0.48 |
| 13 | 6.50 | 311.60 | 0.51 |
| 14 | 7.00 | 313.00 | 0.45 |
| 15 | 7.50 | 314.40 | 0.45 |
| 16 | 8.00 | 315.70 | 0.41 |
| 17 | 8.50 | 316.70 | 0.32 |
| 18 | 9.00 | 317.70 | 0.31 |
| 19 | 9.50 | 318.60 | 0.28 |
| 20 | 10.00 | 319.40 | 0.25 |
| 21 | 10.50 | 320.20 | 0.25 |
| 22 | 11.00 | 320.90 | 0.22 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 320.9 - 19.57612 )(1)/(1) = +3.013E+02 g/L Carbon
( 320.9 - 19.57612 )(1)/(1)(12) = +2.511E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{301.3\ \mu g\ C}{.0633\ \mu g} = 4.76E^{3}\ \mu g/g$

RWS 10/31/95

814

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:35:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 15.10 | 99.34 |
| 3 | 1.50 | 168.80 | 91.05 |
| 4 | 2.00 | 393.30 | 57.08 |
| 5 | 2.50 | 561.60 | 29.97 |
| 6 | 3.00 | 654.20 | 14.15 |
| 7 | 3.50 | 707.40 | 7.52 |
| 8 | 4.00 | 731.00 | 3.23 |
| 9 | 4.50 | 739.90 | 1.20 |
| 10 | 5.00 | 744.40 | 0.60 |
| 11 | 5.50 | 747.30 | 0.39 |
| 12 | 6.00 | 749.80 | 0.33 |
| 13 | 6.50 | 752.40 | 0.35 |
| 14 | 7.00 | 755.00 | 0.34 |
| 15 | 7.50 | 757.70 | 0.36 |
| 16 | 8.00 | 760.30 | 0.34 |
| 17 | 8.50 | 763.00 | 0.35 |
| 18 | 9.00 | 765.40 | 0.31 |
| 19 | 9.50 | 767.80 | 0.31 |
| 20 | 10.00 | 770.20 | 0.31 |
| 21 | 10.50 | 772.20 | 0.26 |
| 22 | 11.00 | 774.40 | 0.28 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 774.4 - 2.529916 )(1)/(1) = +7.719E+02 g/L Carbon
( 774.4 - 2.529916 )(1)/(1)(12) = +6.432E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 06:19:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| Reading | Analysis Time | Coulometer | % Difference |
|---|---|---|---|
| 1 | 0.51 | 1.80 | 0.00 |
| 2 | 1.01 | 40.40 | 95.54 |
| 3 | 1.50 | 174.50 | 76.85 |
| 4 | 2.00 | 264.40 | 34.00 |
| 5 | 2.50 | 318.00 | 16.86 |
| 6 | 3.00 | 342.50 | 7.15 |
| 7 | 3.50 | 352.50 | 2.84 |
| 8 | 4.00 | 357.80 | 1.48 |
| 9 | 4.50 | 361.90 | 1.13 |
| 10 | 5.00 | 364.30 | 0.66 |
| 11 | 5.50 | 366.90 | 0.71 |
| 12 | 6.00 | 368.50 | 0.43 |
| 13 | 6.50 | 370.10 | 0.43 |
| 14 | 7.00 | 371.50 | 0.38 |
| 15 | 7.50 | 372.70 | 0.32 |
| 16 | 8.00 | 373.70 | 0.27 |
| 17 | 8.50 | 374.70 | 0.27 |
| 18 | 9.00 | 375.60 | 0.24 |
| 19 | 9.50 | 376.30 | 0.19 |
| 20 | 10.00 | 377.00 | 0.19 |
| 21 | 10.50 | 377.60 | 0.16 |
| 22 | 11.00 | 378.30 | 0.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 378.3 - 19.57973 )(1)/(1) = +3.587E+02 g/L Carbon
( 378.3 - 19.57973 )(1)/(1)(12) = +2.989E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{358.7\ \mu g\ C}{.0722\ g} = 4.97 \times 10^{3}\ \mu g/g$

816

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:33:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 3.50 | 100.00 |
| 3 | 1.50 | 34.20 | 89.77 |
| 4 | 2.00 | 104.30 | 67.21 |
| 5 | 2.50 | 197.40 | 47.16 |
| 6 | 3.00 | 274.40 | 28.06 |
| 7 | 3.50 | 323.50 | 15.18 |
| 8 | 4.00 | 347.70 | 6.96 |
| 9 | 4.50 | 357.60 | 2.77 |
| 10 | 5.00 | 362.00 | 1.22 |
| 11 | 5.50 | 365.00 | 0.82 |
| 12 | 6.00 | 367.40 | 0.65 |
| 13 | 6.50 | 369.50 | 0.57 |
| 14 | 7.00 | 371.50 | 0.54 |
| 15 | 7.50 | 373.60 | 0.56 |
| 16 | 8.00 | 376.60 | 0.80 |
| 17 | 8.50 | 380.70 | 1.08 |
| 18 | 9.00 | 385.80 | 1.32 |
| 19 | 9.50 | 390.80 | 1.28 |
| 20 | 10.00 | 396.60 | 1.46 |
| 21 | 10.50 | 402.10 | 1.37 |
| 22 | 11.00 | 407.50 | 1.33 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 407.5 - 2.529544 )(1)/(1) = +4.050E+02 g/L Carbon
( 407.5 - 2.529544 )(1)/(1)(12) = +3.375E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:45:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.70 | 0.00 |
| 2 | 1.01 | 27.70 | 83.03 |
| 3 | 1.50 | 97.80 | 71.68 |
| 4 | 2.00 | 201.10 | 51.37 |
| 5 | 2.50 | 294.80 | 31.78 |
| 6 | 3.00 | 361.80 | 18.52 |
| 7 | 3.50 | 409.40 | 11.63 |
| 8 | 4.00 | 442.00 | 7.38 |
| 9 | 4.50 | 463.20 | 4.58 |
| 10 | 5.00 | 478.80 | 3.26 |
| 11 | 5.50 | 490.60 | 2.41 |
| 12 | 6.00 | 499.80 | 1.84 |
| 13 | 6.50 | 507.70 | 1.56 |
| 14 | 7.00 | 513.90 | 1.21 |
| 15 | 7.50 | 519.40 | 1.06 |
| 16 | 8.00 | 524.20 | 0.92 |
| 17 | 8.50 | 528.30 | 0.78 |
| 18 | 9.00 | 532.30 | 0.75 |
| 19 | 9.50 | 535.30 | 0.56 |
| 20 | 10.00 | 538.00 | 0.50 |
| 21 | 10.50 | 540.50 | 0.46 |
| 22 | 11.00 | 543.10 | 0.48 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 543.1 - 19.57794 )(1)/(1) = +5.235E+02 g/L Carbon
( 543.1 - 19.57794 )(1)/(1)(12) = +4.363E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{523.5\ mg\ C}{.0678\ g} = 7.72E^{3}\ mg\ C/g$

818

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:58:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.40 | 0.00 |
| 2 | 1.01 | 5.00 | 52.00 |
| 3 | 1.51 | 21.40 | 76.64 |
| 4 | 2.01 | 66.40 | 67.77 |
| 5 | 2.51 | 138.60 | 52.09 |
| 6 | 3.01 | 224.70 | 38.32 |
| 7 | 3.51 | 284.60 | 21.05 |
| 8 | 4.00 | 317.40 | 10.33 |
| 9 | 4.50 | 330.30 | 3.91 |
| 10 | 5.00 | 336.50 | 1.84 |
| 11 | 5.50 | 340.40 | 1.15 |
| 12 | 6.00 | 343.60 | 0.93 |
| 13 | 6.50 | 346.00 | 0.69 |
| 14 | 7.00 | 348.30 | 0.66 |
| 15 | 7.50 | 350.20 | 0.54 |
| 16 | 8.00 | 351.90 | 0.48 |
| 17 | 8.50 | 353.50 | 0.45 |
| 18 | 9.00 | 355.10 | 0.45 |
| 19 | 9.50 | 356.50 | 0.39 |
| 20 | 10.00 | 357.80 | 0.36 |
| 21 | 10.50 | 359.30 | 0.42 |
| 22 | 11.00 | 361.00 | 0.47 |

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
( 361 - 2.529916 )(1)/(1) = +3.585E+02 g/L Carbon
( 361 - 2.529916 )(1)/(1)(12) = +2.987E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 07:10:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.00 | 0.00 |
| 2 | 1.01 | 22.00 | 90.91 |
| 3 | 1.51 | 86.70 | 74.63 |
| 4 | 2.01 | 222.20 | 60.98 |
| 5 | 2.50 | 349.50 | 36.42 |
| 6 | 3.00 | 439.00 | 20.39 |
| 7 | 3.51 | 506.90 | 13.40 |
| 8 | 4.00 | 554.90 | 8.65 |
| 9 | 4.50 | 587.50 | 5.55 |
| 10 | 5.00 | 608.30 | 3.42 |
| 11 | 5.50 | 623.80 | 2.48 |
| 12 | 6.00 | 635.80 | 1.89 |
| 13 | 6.50 | 645.90 | 1.56 |
| 14 | 7.00 | 653.90 | 1.22 |
| 15 | 7.50 | 660.80 | 1.04 |
| 16 | 8.00 | 666.90 | 0.91 |
| 17 | 8.50 | 671.80 | 0.73 |
| 18 | 9.00 | 676.30 | 0.67 |
| 19 | 9.50 | 680.30 | 0.59 |
| 20 | 10.00 | 684.00 | 0.54 |
| 21 | 10.50 | 687.00 | 0.44 |
| 22 | 11.00 | 690.10 | 0.45 |

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
( 690.1 - 19.57794 )(1)/(1) = +6.705E+02 g/L Carbon
( 690.1 - 19.57794 )(1)/(1)(12) = +5.588E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{670.5 \text{ mgC}}{.0885 \text{ g}} = 7.58 \times 3 \text{ mgC/g}$

820

worklistrpt Version 2.1 05/15/95
10/23/95 23:10



# LABCORE Data Entry Template for Worklist# 3009

**Analyst:** KRM **Instrument:** TIC01 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 5.6 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | SOLID | 3.00E3 | 2.88E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T001973 | 0 | | TOC-02 | SOLID | N/A | 2.30E3 | | ug/g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T001973 | 0 | | TOC-02 | SOLID | 2.30E3 | 2.81E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 5 | SPK | S95T001973 | 0 | | TOC-02 | SOLID | 100 | 104 | N/A | ug/g |
| 95000118 | BY-108 (R) | 6 | SAMPLE | S95T001974 | 0 | | TOC-02 | SOLID | N/A | 2.67E3 | | ug/g |
| 95000118 | BY-108 (R) | 7 | DUP | S95T001974 | 0 | | TOC-02 | SOLID | 2.67E3 | 2.21E3 | N/A | ug/g |

## Final page for worklist # 3009

Analyst Signature Date 10-23-95

Analyst Signature Date 10-24-95

Reviewed RW Schroeder 10/26/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 10/23/95  Time: 18:35:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.30 | 100.00 |
| 3 | 1.50 | 1.00 | 70.00 |
| 4 | 2.00 | 1.40 | 28.57 |
| 5 | 2.50 | 1.80 | 22.22 |
| 6 | 3.00 | 1.90 | 5.26 |
| 7 | 3.50 | 2.10 | 9.52 |
| 8 | 4.00 | 2.20 | 4.55 |
| 9 | 4.50 | 2.30 | 4.35 |
| 10 | 5.00 | 2.40 | 4.17 |
| 11 | 5.50 | 2.50 | 4.00 |
| 12 | 6.00 | 2.60 | 3.85 |
| 13 | 6.50 | 2.60 | 0.00 |
| 14 | 7.00 | 2.60 | 0.00 |
| 15 | 7.50 | 2.70 | 3.70 |
| 16 | 8.00 | 2.80 | 3.57 |
| 17 | 8.50 | 2.90 | 3.45 |
| 18 | 9.00 | 2.90 | 0.00 |
| 19 | 9.50 | 3.00 | 3.33 |
| 20 | 10.00 | 3.00 | 0.00 |
| 21 | 10.50 | 3.10 | 3.23 |
| 22 | 11.00 | 3.10 | 0.00 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES** 822 **TO** 837.

BLANK VALUE = 3.1 micrograms carbon
BLANK FACTOR = 3.1 / 10.99988 = +2.8E-01 ug/min Carbon

Sample Run By: 10-23-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/23/95 Time: 18:46:51

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.00 | 0.00 |
| 3 | 1.51 | 4.80 | 100.00 |
| 4 | 2.01 | 16.40 | 70.73 |
| 5 | 2.50 | 25.40 | 35.43 |
| 6 | 3.00 | 31.10 | 18.33 |
| 7 | 3.50 | 34.90 | 10.89 |
| 8 | 4.00 | 37.70 | 7.43 |
| 9 | 4.50 | 39.80 | 5.28 |
| 10 | 5.00 | 41.40 | 3.86 |
| 11 | 5.50 | 42.90 | 3.50 |
| 12 | 6.00 | 44.10 | 2.72 |
| 13 | 6.50 | 45.30 | 2.65 |
| 14 | 7.00 | 46.30 | 2.16 |
| 15 | 7.50 | 47.20 | 1.91 |
| 16 | 8.00 | 48.00 | 1.67 |
| 17 | 8.50 | 48.70 | 1.44 |
| 18 | 9.00 | 49.30 | 1.22 |
| 19 | 9.50 | 49.70 | 0.80 |
| 20 | 10.00 | 50.20 | 1.00 |
| 21 | 10.50 | 50.70 | 0.99 |
| 22 | 11.00 | 51.00 | 0.59 |

BLANK VALUE = 51 micrograms carbon
BLANK FACTOR = 51 / 11.00061 = +4.64E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 10/23/95  Time: 18:58:57

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 0.40 | 50.00 |
| 3 | 1.51 | 2.60 | 84.62 |
| 4 | 2.01 | 28.50 | 90.88 |
| 5 | 2.51 | 90.60 | 68.54 |
| 6 | 3.01 | 164.50 | 44.92 |
| 7 | 3.51 | 243.60 | 32.47 |
| 8 | 4.01 | 303.30 | 19.68 |
| 9 | 4.51 | 333.50 | 9.06 |
| 10 | 5.01 | 347.40 | 4.00 |
| 11 | 5.51 | 353.70 | 1.78 |
| 12 | 6.01 | 355.50 | 0.51 |
| 13 | 6.51 | 357.40 | 0.53 |
| 14 | 7.00 | 358.70 | 0.36 |
| 15 | 7.50 | 359.60 | 0.25 |
| 16 | 8.00 | 360.40 | 0.22 |
| 17 | 8.50 | 361.10 | 0.19 |
| 18 | 9.00 | 361.60 | 0.14 |
| 19 | 9.50 | 362.00 | 0.11 |
| 20 | 10.00 | 362.40 | 0.11 |
| 21 | 10.50 | 362.80 | 0.11 |
| 22 | 11.00 | 363.10 | 0.08 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 363.1 - 3.080684 )(1)/(1000) = +3.600E-01 g/L Carbon
( 363.1 - 3.080684 )(1)/(1000)(12) = +3.000E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/23/95 Time: 19:10:54

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.20 | 0.00 |
| 2 | 1.01 | 25.00 | 99.20 |
| 3 | 1.51 | 186.80 | 86.62 |
| 4 | 2.00 | 525.40 | 64.45 |
| 5 | 2.50 | 753.10 | 30.24 |
| 6 | 3.00 | 841.90 | 10.55 |
| 7 | 3.50 | 880.50 | 4.38 |
| 8 | 4.00 | 893.40 | 1.44 |
| 9 | 4.50 | 898.60 | 0.58 |
| 10 | 5.00 | 902.00 | 0.38 |
| 11 | 5.50 | 904.10 | 0.23 |
| 12 | 6.00 | 906.10 | 0.22 |
| 13 | 6.50 | 907.60 | 0.17 |
| 14 | 7.00 | 908.90 | 0.14 |
| 15 | 7.50 | 910.00 | 0.12 |
| 16 | 8.00 | 910.90 | 0.10 |
| 17 | 8.50 | 911.90 | 0.11 |
| 18 | 9.00 | 912.70 | 0.09 |
| 19 | 9.50 | 913.50 | 0.09 |
| 20 | 10.00 | 914.10 | 0.07 |
| 21 | 10.50 | 914.70 | 0.07 |
| 22 | 11.00 | 915.30 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 915.3 - 51.03943 )(1)/(300) = +2.881E+00 g/L Carbon
( 915.3 - 51.03943 )(1)/(300)(12) = +2.401E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/23/95 Time: 19:22:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.40 | 0.00 |
| 2 | 1.01 | 1.80 | 77.78 |
| 3 | 1.51 | 3.30 | 45.45 |
| 4 | 2.00 | 4.40 | 25.00 |
| 5 | 2.50 | 4.90 | 10.20 |
| 6 | 3.00 | 5.40 | 9.26 |
| 7 | 3.50 | 5.70 | 5.26 |
| 8 | 4.00 | 5.90 | 3.39 |
| 9 | 4.50 | 6.20 | 4.84 |
| 10 | 5.00 | 6.30 | 1.59 |
| 11 | 5.50 | 6.60 | 4.55 |
| 12 | 6.00 | 6.80 | 2.94 |
| 13 | 6.50 | 7.00 | 2.86 |
| 14 | 7.00 | 7.20 | 2.78 |
| 15 | 7.50 | 7.30 | 1.37 |
| 16 | 8.00 | 7.50 | 2.67 |
| 17 | 8.50 | 7.70 | 2.60 |
| 18 | 9.00 | 7.80 | 1.28 |
| 19 | 9.50 | 8.00 | 2.50 |
| 20 | 10.00 | 8.10 | 1.23 |
| 21 | 10.50 | 8.30 | 2.41 |
| 22 | 11.00 | 8.40 | 1.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 8.4 - 3.080205 )(1)/(1) = +5.3E+00 g/L Carbon
( 8.4 - 3.080205 )(1)/(1)(12) = +4.4E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/23/95 Time: 19:34:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 2.30 | 100.00 |
| 3 | 1.50 | 12.30 | 81.30 |
| 4 | 2.00 | 23.70 | 48.10 |
| 5 | 2.50 | 30.60 | 22.55 |
| 6 | 3.00 | 34.40 | 11.05 |
| 7 | 3.50 | 36.60 | 6.01 |
| 8 | 4.00 | 37.90 | 3.43 |
| 9 | 4.50 | 38.90 | 2.57 |
| 10 | 5.00 | 39.80 | 2.26 |
| 11 | 5.50 | 40.50 | 1.73 |
| 12 | 6.00 | 41.40 | 2.17 |
| 13 | 6.50 | 42.00 | 1.43 |
| 14 | 7.00 | 42.50 | 1.18 |
| 15 | 7.50 | 43.10 | 1.39 |
| 16 | 8.00 | 43.50 | 0.92 |
| 17 | 8.50 | 43.90 | 0.91 |
| 18 | 9.00 | 44.30 | 0.90 |
| 19 | 9.50 | 44.60 | 0.67 |
| 20 | 10.00 | 44.90 | 0.67 |
| 21 | 10.50 | 45.20 | 0.66 |
| 22 | 11.00 | 45.40 | 0.44 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 45.4 - 51.04283 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 45.4 - 51.04283 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

45.4 - 51.0 = -5.6

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 19:46:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 4.70 | 97.87 |
| 3 | 1.51 | 207.10 | 97.73 |
| 4 | 2.00 | 817.20 | 74.66 |
| 5 | 2.50 | 1327.30 | 38.43 |
| 6 | 3.00 | 1593.40 | 16.70 |
| 7 | 3.50 | 1715.80 | 7.13 |
| 8 | 4.00 | 1782.70 | 3.75 |
| 9 | 4.50 | 1811.70 | 1.60 |
| 10 | 5.00 | 1822.80 | 0.61 |
| 11 | 5.50 | 1828.80 | 0.33 |
| 12 | 6.00 | 1832.10 | 0.18 |
| 13 | 6.50 | 1834.90 | 0.15 |
| 14 | 7.00 | 1837.00 | 0.11 |
| 15 | 7.50 | 1838.60 | 0.09 |
| 16 | 8.00 | 1840.00 | 0.08 |
| 17 | 8.50 | 1841.30 | 0.07 |
| 18 | 9.00 | 1842.40 | 0.06 |
| 19 | 9.50 | 1843.40 | 0.05 |
| 20 | 10.00 | 1844.40 | 0.05 |
| 21 | 10.50 | 1845.30 | 0.05 |
| 22 | 11.00 | 1846.00 | 0.04 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 1846 - 3.079897 )(1)/(1) = +1.8429E+03 g/L Carbon
( 1846 - 3.079897 )(1)/(1)(12) = +1.5358E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:16:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 49.70 | 98.59 |
| 3 | 1.50 | 207.10 | 76.00 |
| 4 | 2.00 | 335.50 | 38.27 |
| 5 | 2.50 | 406.50 | 17.47 |
| 6 | 3.00 | 437.20 | 7.02 |
| 7 | 3.50 | 449.80 | 2.80 |
| 8 | 4.00 | 456.30 | 1.42 |
| 9 | 4.50 | 460.50 | 0.91 |
| 10 | 5.00 | 463.40 | 0.63 |
| 11 | 5.50 | 465.80 | 0.52 |
| 12 | 6.00 | 468.00 | 0.47 |
| 13 | 6.50 | 470.00 | 0.43 |
| 14 | 7.00 | 471.30 | 0.28 |
| 15 | 7.50 | 472.50 | 0.25 |
| 16 | 8.00 | 473.50 | 0.21 |
| 17 | 8.50 | 474.30 | 0.17 |
| 18 | 9.00 | 475.20 | 0.19 |
| 19 | 9.50 | 475.90 | 0.15 |
| 20 | 10.00 | 476.60 | 0.15 |
| 21 | 10.50 | 477.10 | 0.10 |
| 22 | 11.00 | 477.90 | 0.17 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 477.9 - 51.04283 )(1)/(1) = +4.269E+02 g/L Carbon
( 477.9 - 51.04283 )(1)/(1)(12) = +3.557E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{426.9}{.1854} = 2.30_E{}^3$

829

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:29:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 26.80 | 100.00 |
| 3 | 1.51 | 162.20 | 83.48 |
| 4 | 2.00 | 447.30 | 63.74 |
| 5 | 2.50 | 713.30 | 37.29 |
| 6 | 3.00 | 916.10 | 22.14 |
| 7 | 3.50 | 1059.40 | 13.53 |
| 8 | 4.00 | 1157.20 | 8.45 |
| 9 | 4.50 | 1222.50 | 5.34 |
| 10 | 5.00 | 1259.10 | 2.91 |
| 11 | 5.50 | 1275.80 | 1.31 |
| 12 | 6.00 | 1284.30 | 0.66 |
| 13 | 6.50 | 1289.40 | 0.40 |
| 14 | 7.00 | 1292.90 | 0.27 |
| 15 | 7.50 | 1295.50 | 0.20 |
| 16 | 8.00 | 1297.70 | 0.17 |
| 17 | 8.50 | 1299.60 | 0.15 |
| 18 | 9.00 | 1301.10 | 0.12 |
| 19 | 9.50 | 1302.50 | 0.11 |
| 20 | 10.00 | 1303.70 | 0.09 |
| 21 | 10.50 | 1304.80 | 0.08 |
| 22 | 11.00 | 1306.00 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 1306 - 3.080444 )(1)/(1) = +1.3029E+03 g/L Carbon
( 1306 - 3.080444 )(1)/(1)(12) = +1.0858E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:41:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.20 | 0.00 |
| 2 | 1.01 | 108.00 | 97.96 |
| 3 | 1.50 | 363.10 | 70.26 |
| 4 | 2.00 | 479.00 | 24.20 |
| 5 | 2.50 | 531.70 | 9.91 |
| 6 | 3.00 | 550.60 | 3.43 |
| 7 | 3.51 | 559.00 | 1.50 |
| 8 | 4.00 | 564.40 | 0.96 |
| 9 | 4.50 | 567.80 | 0.60 |
| 10 | 5.00 | 570.40 | 0.46 |
| 11 | 5.50 | 572.60 | 0.38 |
| 12 | 6.00 | 574.30 | 0.30 |
| 13 | 6.50 | 575.60 | 0.23 |
| 14 | 7.00 | 576.90 | 0.23 |
| 15 | 7.50 | 578.20 | 0.22 |
| 16 | 8.00 | 579.10 | 0.16 |
| 17 | 8.50 | 580.00 | 0.16 |
| 18 | 9.00 | 581.00 | 0.17 |
| 19 | 9.50 | 581.90 | 0.15 |
| 20 | 10.00 | 582.70 | 0.14 |
| 21 | 10.50 | 583.30 | 0.10 |
| 22 | 11.00 | 583.90 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 583.9 - 51.04283 )(1)/(1) = +5.329E+02 g/L Carbon
( 583.9 - 51.04283 )(1)/(1)(12) = +4.440E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

5 32.9 / ~~.1881~~ ~~2.8~~ 2.81E3
.1899 km

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 + SPK  Date: 10/23/95  Time: 21:53:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.60 | 0.00 |
| 2 | 1.01 | 18.60 | 96.77 |
| 3 | 1.50 | 349.80 | 94.68 |
| 4 | 2.00 | 1082.70 | 67.69 |
| 5 | 2.50 | 1672.20 | 35.25 |
| 6 | 3.00 | 1939.40 | 13.78 |
| 7 | 3.50 | 2068.50 | 6.24 |
| 8 | 4.00 | 2138.60 | 3.28 |
| 9 | 4.50 | 2173.40 | 1.60 |
| 10 | 5.00 | 2187.40 | 0.64 |
| 11 | 5.50 | 2195.10 | 0.35 |
| 12 | 6.00 | 2200.00 | 0.22 |
| 13 | 6.50 | 2204.00 | 0.18 |
| 14 | 7.00 | 2206.80 | 0.13 |
| 15 | 7.50 | 2209.30 | 0.11 |
| 16 | 8.00 | 2211.60 | 0.10 |
| 17 | 8.50 | 2213.50 | 0.09 |
| 18 | 9.00 | 2215.20 | 0.08 |
| 19 | 9.50 | 2216.80 | 0.07 |
| 20 | 10.00 | 2218.10 | 0.06 |
| 21 | 10.50 | 2219.30 | 0.05 |
| 22 | 11.00 | 2220.60 | 0.06 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 2220.6 - 3.079932 )(1)/(1) = +2.2175E+03 g/L Carbon
( 2220.6 - 3.079932 )(1)/(1)(12) = +1.8479E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 + SPK  Date: 10/23/95  Time: 22:05:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.30 | 0.00 |
| 2 | 1.01 | 64.80 | 97.99 |
| 3 | 1.50 | 294.00 | 77.96 |
| 4 | 2.00 | 531.60 | 44.70 |
| 5 | 2.50 | 645.50 | 17.65 |
| 6 | 3.00 | 702.70 | 8.14 |
| 7 | 3.50 | 725.20 | 3.10 |
| 8 | 4.00 | 735.10 | 1.35 |
| 9 | 4.50 | 741.90 | 0.92 |
| 10 | 5.00 | 746.20 | 0.58 |
| 11 | 5.50 | 749.40 | 0.43 |
| 12 | 6.00 | 751.90 | 0.33 |
| 13 | 6.50 | 754.00 | 0.28 |
| 14 | 7.00 | 755.50 | 0.20 |
| 15 | 7.50 | 757.00 | 0.20 |
| 16 | 8.00 | 758.50 | 0.20 |
| 17 | 8.50 | 760.00 | 0.20 |
| 18 | 9.00 | 761.30 | 0.17 |
| 19 | 9.50 | 762.40 | 0.14 |
| 20 | 10.00 | 763.50 | 0.14 |
| 21 | 10.50 | 764.30 | 0.10 |
| 22 | 11.00 | 765.00 | 0.09 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 765 - 51.0383 )(1)/(1) = +7.140E+02 g/L Carbon
( 765 - 51.0383 )(1)/(1)(12) = +5.950E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

765.0

$\left[\left(\frac{477.9}{.1854}\right) .1694 + 300\right]$ = 104 % REC

833

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:17:40

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.70 | 0.00 |
| 2 | 1.01 | 5.80 | 87.93 |
| 3 | 1.51 | 26.30 | 77.95 |
| 4 | 2.01 | 76.70 | 65.71 |
| 5 | 2.50 | 150.00 | 48.87 |
| 6 | 3.00 | 247.70 | 39.44 |
| 7 | 3.50 | 362.40 | 31.65 |
| 8 | 4.00 | 481.40 | 24.72 |
| 9 | 4.50 | 579.80 | 16.97 |
| 10 | 5.00 | 653.90 | 11.33 |
| 11 | 5.50 | 702.00 | 6.85 |
| 12 | 6.00 | 726.70 | 3.40 |
| 13 | 6.50 | 739.40 | 1.72 |
| 14 | 7.00 | 747.20 | 1.04 |
| 15 | 7.50 | 752.70 | 0.73 |
| 16 | 8.00 | 756.70 | 0.53 |
| 17 | 8.50 | 760.30 | 0.47 |
| 18 | 9.00 | 763.20 | 0.38 |
| 19 | 9.50 | 765.60 | 0.31 |
| 20 | 10.00 | 768.00 | 0.31 |
| 21 | 10.50 | 770.00 | 0.26 |
| 22 | 11.00 | 771.70 | 0.22 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 771.7 - 3.079419 )(1)/(1) = +7.686E+02 g/L Carbon
( 771.7 - 3.079419 )(1)/(1)(12) = +6.405E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:29:35

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.30 | 0.00 |
| 2 | 1.01 | 62.50 | 96.32 |
| 3 | 1.51 | 279.00 | 77.60 |
| 4 | 2.00 | 409.40 | 31.85 |
| 5 | 2.50 | 475.10 | 13.83 |
| 6 | 3.00 | 505.20 | 5.96 |
| 7 | 3.50 | 518.00 | 2.47 |
| 8 | 4.00 | 525.90 | 1.50 |
| 9 | 4.50 | 531.50 | 1.05 |
| 10 | 5.00 | 535.60 | 0.77 |
| 11 | 5.50 | 539.70 | 0.76 |
| 12 | 6.00 | 543.50 | 0.70 |
| 13 | 6.50 | 546.00 | 0.46 |
| 14 | 7.00 | 547.90 | 0.35 |
| 15 | 7.50 | 549.60 | 0.31 |
| 16 | 8.00 | 551.10 | 0.27 |
| 17 | 8.50 | 552.30 | 0.22 |
| 18 | 9.00 | 553.30 | 0.18 |
| 19 | 9.50 | 554.40 | 0.20 |
| 20 | 10.00 | 555.30 | 0.16 |
| 21 | 10.50 | 556.10 | 0.14 |
| 22 | 11.00 | 557.20 | 0.20 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 557.2 - 51.03886 )(1)/(1) = +5.062E+02 g/L Carbon
( 557.2 - 51.03886 )(1)/(1)(12) = +4.218E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

835

$\frac{506.2}{.1895} = 2.67E^{3}$

WHC-CD-WM-DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:41:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.10 | 0.00 |
| 2 | 1.01 | 6.00 | 81.67 |
| 3 | 1.51 | 171.90 | 96.51 |
| 4 | 2.00 | 728.20 | 76.39 |
| 5 | 2.50 | 1178.00 | 38.18 |
| 6 | 3.00 | 1436.50 | 18.00 |
| 7 | 3.50 | 1571.40 | 8.58 |
| 8 | 4.00 | 1654.90 | 5.05 |
| 9 | 4.50 | 1704.40 | 2.90 |
| 10 | 5.00 | 1727.50 | 1.34 |
| 11 | 5.50 | 1739.30 | 0.68 |
| 12 | 6.00 | 1747.70 | 0.48 |
| 13 | 6.50 | 1754.20 | 0.37 |
| 14 | 7.00 | 1759.40 | 0.30 |
| 15 | 7.50 | 1763.80 | 0.25 |
| 16 | 8.00 | 1767.40 | 0.20 |
| 17 | 8.50 | 1770.60 | 0.18 |
| 18 | 9.00 | 1773.40 | 0.16 |
| 19 | 9.50 | 1775.90 | 0.14 |
| 20 | 10.00 | 1778.10 | 0.12 |
| 21 | 10.50 | 1780.20 | 0.12 |
| 22 | 11.00 | 1782.00 | 0.10 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
( 1782 - 3.079453 )(1)/(1) = +1.7789E+03 g/L Carbon
( 1782 - 3.079453 )(1)/(1)(12) = +1.4824E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:58:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 3.90 | 0.00 |
| 2 | 1.01 | 17.00 | 77.06 |
| 3 | 1.51 | 54.70 | 68.92 |
| 4 | 2.01 | 171.20 | 68.05 |
| 5 | 2.51 | 286.20 | 40.18 |
| 6 | 3.00 | 352.50 | 18.81 |
| 7 | 3.50 | 385.60 | 8.58 |
| 8 | 4.00 | 399.70 | 3.53 |
| 9 | 4.50 | 408.00 | 2.03 |
| 10 | 5.00 | 414.20 | 1.50 |
| 11 | 5.50 | 420.40 | 1.47 |
| 12 | 6.00 | 444.10 | 5.34 |
| 13 | 6.50 | 475.10 | 6.52 |
| 14 | 7.00 | 485.20 | 2.08 |
| 15 | 7.50 | 487.60 | 0.49 |
| 16 | 8.00 | 489.50 | 0.39 |
| 17 | 8.50 | 491.20 | 0.35 |
| 18 | 9.00 | 492.80 | 0.32 |
| 19 | 9.50 | 494.00 | 0.24 |
| 20 | 10.00 | 495.40 | 0.28 |
| 21 | 10.50 | 496.40 | 0.20 |
| 22 | 11.00 | 497.40 | 0.20 |

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
( 497.4 - 51.03943 )(1)/(1) = +4.464E+02 g/L Carbon
( 497.4 - 51.03943 )(1)/(1)(12) = +3.720E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{446.4}{.2017} = 2.21E^3$

837

# LABCORE Data Entry Template for Worklist# 3217

**Analyst:** KRM **Instrument:** TOC02 **Book #** 16N12B

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | LIQUID | 1 | 16.6 | N/A | ug/mL |
| | | 2 | STD | | | | TOC-02 | LIQUID | 3.00B3 | 2.77B3 | N/A | ug/mL |
| 95000101 | BY-108 (R) | 3 | SAMPLE | S95T001365 | 0 | | TOC-02 | LIQUID | N/A | <40 ~~<5.00B3~~ | 40 | ug/mL |
| 95000101 | BY-108 (R) | 4 | DUP | S95T001365 | 0 | | TOC-02 | LIQUID | ~~<5.00B~~ <40 | KRM ~~<5.00B3~~ <40 | N/A | ug/mL |

## Final page for worklist # 3217

Analyst Signature Date 11-9-95

Analyst Signature Date 11/10/95

Reviewed RW Schroeder 11/13/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 11/09/95  Time: 10:35:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 1.20 | 0.00 |
| 2 | 1.01 | 1.20 | 0.00 |
| 3 | 1.51 | 1.40 | 14.29 |
| 4 | 2.01 | 1.70 | 17.65 |
| 5 | 2.51 | 1.80 | 5.56 |
| 6 | 3.00 | 2.00 | 10.00 |
| 7 | 3.50 | 2.10 | 4.76 |
| 8 | 4.00 | 2.20 | 4.55 |
| 9 | 4.50 | 2.30 | 4.35 |
| 10 | 5.00 | 2.40 | 4.17 |
| 11 | 5.50 | 2.50 | 4.00 |
| 12 | 6.00 | 2.60 | 3.85 |
| 13 | 6.50 | 2.70 | 3.70 |
| 14 | 7.00 | 2.70 | 0.00 |
| 15 | 7.50 | 2.80 | 3.57 |
| 16 | 8.00 | 2.90 | 3.45 |
| 17 | 8.50 | 3.10 | 6.45 |
| 18 | 9.00 | 3.10 | 0.00 |
| 19 | 9.50 | 3.30 | 6.06 |
| 20 | 10.00 | 3.30 | 0.00 |
| 21 | 10.50 | 3.40 | 2.94 |
| 22 | 11.00 | 3.40 | 0.00 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES** 839 **TO** 848.

BLANK VALUE = 3.4 micrograms carbon
BLANK FACTOR = 3.4 / 11.00244 = +3.1E-01 ug/min Carbon

Sample Run By: 11-9-95
KR MONTEITH 00000

P^^^

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK  Date: 11/09/95  Time: 10:49:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 2.90 | 100.00 |
| 3 | 1.50 | 11.90 | 75.63 |
| 4 | 2.00 | 19.00 | 37.37 |
| 5 | 2.50 | 25.50 | 25.49 |
| 6 | 3.00 | 28.10 | 9.25 |
| 7 | 3.50 | 31.20 | 9.94 |
| 8 | 4.00 | 34.50 | 9.57 |
| 9 | 4.50 | 37.00 | 6.76 |
| 10 | 5.00 | 38.70 | 4.39 |
| 11 | 5.50 | 40.00 | 3.25 |
| 12 | 6.00 | 40.90 | 2.20 |
| 13 | 6.50 | 41.60 | 1.68 |
| 14 | 7.00 | 42.30 | 1.65 |
| 15 | 7.50 | 42.80 | 1.17 |
| 16 | 8.00 | 43.30 | 1.15 |
| 17 | 8.50 | 43.70 | 0.92 |
| 18 | 9.00 | 44.20 | 1.13 |
| 19 | 9.50 | 44.60 | 0.90 |
| 20 | 10.00 | 44.90 | 0.67 |
| 21 | 10.50 | 45.20 | 0.66 |
| 22 | 11.00 | 45.50 | 0.66 |

BLANK VALUE = 45.5 micrograms carbon
BLANK FACTOR = 45.5 / 10.99884 = +4.14E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD  Date: 11/09/95  Time: 11:03:36

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 6.20 | 100.00 |
| 3 | 1.50 | 125.80 | 95.07 |
| 4 | 2.00 | 312.90 | 59.80 |
| 5 | 2.50 | 450.60 | 30.56 |
| 6 | 3.00 | 527.00 | 14.50 |
| 7 | 3.50 | 564.00 | 6.56 |
| 8 | 4.00 | 578.30 | 2.47 |
| 9 | 4.50 | 584.10 | 0.99 |
| 10 | 5.00 | 586.90 | 0.48 |
| 11 | 5.50 | 588.20 | 0.22 |
| 12 | 6.00 | 589.30 | 0.19 |
| 13 | 6.50 | 590.10 | 0.14 |
| 14 | 7.00 | 590.70 | 0.10 |
| 15 | 7.50 | 591.30 | 0.10 |
| 16 | 8.00 | 591.90 | 0.10 |
| 17 | 8.50 | 592.20 | 0.05 |
| 18 | 9.00 | 592.60 | 0.07 |
| 19 | 9.50 | 592.90 | 0.05 |
| 20 | 10.00 | 593.20 | 0.05 |
| 21 | 10.50 | 593.50 | 0.05 |
| 22 | 11.00 | 593.80 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 593.8 - 3.409319 )(1)/(1000) = +5.904E-01 g/L Carbon
( 593.8 - 3.409319 )(1)/(1000)(12) = +4.920E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 11/09/95 Time: 12:27:25

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 10.60 | 99.06 |
| 3 | 1.51 | 132.40 | 91.99 |
| 4 | 2.00 | 365.30 | 63.76 |
| 5 | 2.50 | 498.90 | 26.78 |
| 6 | 3.00 | 542.00 | 7.95 |
| 7 | 3.50 | 550.60 | 1.56 |
| 8 | 4.00 | 556.70 | 1.10 |
| 9 | 4.50 | 561.70 | 0.89 |
| 10 | 5.00 | 565.90 | 0.74 |
| 11 | 5.50 | 576.10 | 1.77 |
| 12 | 6.00 | 586.00 | 1.69 |
| 13 | 6.50 | 589.90 | 0.66 |
| 14 | 7.00 | 592.30 | 0.41 |
| 15 | 7.50 | 594.30 | 0.34 |
| 16 | 8.00 | 595.40 | 0.18 |
| 17 | 8.50 | 596.40 | 0.17 |
| 18 | 9.00 | 597.30 | 0.15 |
| 19 | 9.50 | 597.80 | 0.08 |
| 20 | 10.00 | 598.40 | 0.10 |
| 21 | 10.50 | 598.90 | 0.08 |
| 22 | 11.00 | 599.30 | 0.07 |

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
( 599.3 - 45.53949 )(1)/(200) = +2.769E+00 g/L Carbon
( 599.3 - 45.53949 )(1)/(200)(12) = +2.307E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK  Date: 11/09/95  Time: 12:42:30

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.30 | 100.00 |
| 3 | 1.51 | 2.20 | 40.91 |
| 4 | 2.01 | 2.60 | 15.38 |
| 5 | 2.51 | 2.90 | 10.34 |
| 6 | 3.01 | 3.10 | 6.45 |
| 7 | 3.51 | 3.30 | 6.06 |
| 8 | 4.01 | 3.40 | 2.94 |
| 9 | 4.50 | 3.50 | 2.86 |
| 10 | 5.00 | 3.50 | 0.00 |
| 11 | 5.50 | 3.60 | 2.78 |
| 12 | 6.00 | 3.70 | 2.70 |
| 13 | 6.50 | 3.80 | 2.63 |
| 14 | 7.00 | 3.80 | 0.00 |
| 15 | 7.50 | 3.90 | 2.56 |
| 16 | 8.00 | 4.00 | 2.50 |
| 17 | 8.50 | 4.00 | 0.00 |
| 18 | 9.00 | 4.10 | 2.44 |
| 19 | 9.50 | 4.20 | 2.38 |
| 20 | 10.00 | 4.30 | 2.33 |
| 21 | 10.50 | 4.30 | 0.00 |
| 22 | 11.00 | 4.40 | 2.27 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 4.4 - 3.410208 )(1)/(1) = +9.9E-01 g/L Carbon
( 4.4 - 3.410208 )(1)/(1)(12) = +8.2E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 11/09/95 Time: 12:57:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.00 | 100.00 |
| 3 | 1.51 | 6.60 | 84.85 |
| 4 | 2.00 | 11.40 | 42.11 |
| 5 | 2.50 | 14.10 | 19.15 |
| 6 | 3.00 | 16.40 | 14.02 |
| 7 | 3.50 | 17.60 | 6.82 |
| 8 | 4.00 | 19.40 | 9.28 |
| 9 | 4.50 | 21.60 | 10.19 |
| 10 | 5.00 | 23.20 | 6.90 |
| 11 | 5.50 | 23.90 | 2.93 |
| 12 | 6.00 | 24.50 | 2.45 |
| 13 | 6.50 | 24.90 | 1.61 |
| 14 | 7.00 | 25.20 | 1.19 |
| 15 | 7.50 | 25.20 | 0.00 |
| 16 | 8.00 | 25.30 | 0.40 |
| 17 | 8.50 | 25.80 | 1.94 |
| 18 | 9.00 | 26.30 | 1.90 |
| 19 | 9.50 | 26.80 | 1.87 |
| 20 | 10.00 | 27.60 | 2.90 |
| 21 | 10.50 | 28.30 | 2.47 |
| 22 | 11.00 | 28.90 | 2.08 |

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
( 28.9 - 45.53924 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 28.9 - 45.53924 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1
844

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:12:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.90 | 100.00 |
| 3 | 1.51 | 6.20 | 85.48 |
| 4 | 2.00 | 14.00 | 55.71 |
| 5 | 2.50 | 20.10 | 30.35 |
| 6 | 3.00 | 23.40 | 14.10 |
| 7 | 3.50 | 25.50 | 8.24 |
| 8 | 4.00 | 26.20 | 2.67 |
| 9 | 4.50 | 26.70 | 1.87 |
| 10 | 5.00 | 27.10 | 1.48 |
| 11 | 5.50 | 27.30 | 0.73 |
| 12 | 6.00 | 27.50 | 0.73 |
| 13 | 6.50 | 27.70 | 0.72 |
| 14 | 7.00 | 27.90 | 0.72 |
| 15 | 7.50 | 28.00 | 0.36 |
| 16 | 8.00 | 28.20 | 0.71 |
| 17 | 8.50 | 28.30 | 0.35 |
| 18 | 9.00 | 28.50 | 0.70 |
| 19 | 9.50 | 28.60 | 0.35 |
| 20 | 10.00 | 28.70 | 0.35 |
| 21 | 10.50 | 28.80 | 0.35 |
| 22 | 11.00 | 28.90 | 0.35 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 28.9 - 3.409622 )(1)/(1) = +2.55E+01 g/L Carbon
( 28.9 - 3.409622 )(1)/(1)(12) = +2.12E+00 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1
845

^^

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:24:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.10 | 100.00 |
| 3 | 1.51 | 7.10 | 84.51 |
| 4 | 2.00 | 13.40 | 47.01 |
| 5 | 2.50 | 17.70 | 24.29 |
| 6 | 3.00 | 19.70 | 10.15 |
| 7 | 3.50 | 20.30 | 2.96 |
| 8 | 4.00 | 20.50 | 0.98 |
| 9 | 4.50 | 20.80 | 1.44 |
| 10 | 5.00 | 22.80 | 8.77 |
| 11 | 5.50 | 23.90 | 4.60 |
| 12 | 6.00 | 25.60 | 6.64 |
| 13 | 6.50 | 27.00 | 5.19 |
| 14 | 7.00 | 28.00 | 3.57 |
| 15 | 7.50 | 28.70 | 2.44 |
| 16 | 8.00 | 29.30 | 2.05 |
| 17 | 8.50 | 29.70 | 1.35 |
| 18 | 9.00 | 30.20 | 1.66 |
| 19 | 9.50 | 30.50 | 0.98 |
| 20 | 10.00 | 30.80 | 0.97 |
| 21 | 10.50 | 31.10 | 0.96 |
| 22 | 11.00 | 31.30 | 0.64 |

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
( 31.3 - 45.53873 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 31.3 - 45.53873 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

WHC-SD-WM-DP-146, REV. 1

Sample Run By: KR MONTEITH 00000

< 40

DEDECTION LIMIT IS 40

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:37:49

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 1.90 | 100.00 |
| 3 | 1.51 | 9.10 | 79.12 |
| 4 | 2.00 | 17.70 | 48.59 |
| 5 | 2.50 | 22.60 | 21.68 |
| 6 | 3.00 | 25.60 | 11.72 |
| 7 | 3.50 | 26.80 | 4.48 |
| 8 | 4.00 | 27.40 | 2.19 |
| 9 | 4.50 | 27.90 | 1.79 |
| 10 | 5.00 | 28.10 | 0.71 |
| 11 | 5.50 | 28.30 | 0.71 |
| 12 | 6.00 | 28.60 | 1.05 |
| 13 | 6.50 | 28.70 | 0.35 |
| 14 | 7.00 | 28.90 | 0.69 |
| 15 | 7.50 | 29.00 | 0.34 |
| 16 | 8.00 | 29.20 | 0.68 |
| 17 | 8.50 | 29.30 | 0.34 |
| 18 | 9.00 | 29.50 | 0.68 |
| 19 | 9.50 | 29.70 | 0.67 |
| 20 | 10.00 | 29.90 | 0.67 |
| 21 | 10.50 | 30.20 | 0.99 |
| 22 | 11.00 | 30.40 | 0.66 |

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
( 30.4 - 3.410208 )(1)/(1) = +2.70E+01 g/L Carbon
( 30.4 - 3.410208 )(1)/(1)(12) = +2.25E+00 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

^^^^^

# TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:56:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.00 | 0.00 |
| 2 | 1.01 | 0.60 | 100.00 |
| 3 | 1.50 | 6.40 | 90.63 |
| 4 | 2.00 | 13.10 | 51.15 |
| 5 | 2.50 | 17.50 | 25.14 |
| 6 | 3.00 | 19.90 | 12.06 |
| 7 | 3.50 | 21.10 | 5.69 |
| 8 | 4.00 | 21.80 | 3.21 |
| 9 | 4.50 | 21.90 | 0.46 |
| 10 | 5.00 | 22.20 | 1.35 |
| 11 | 5.50 | 22.90 | 3.06 |
| 12 | 6.00 | 24.20 | 5.37 |
| 13 | 6.50 | 25.10 | 3.59 |
| 14 | 7.00 | 25.80 | 2.71 |
| 15 | 7.50 | 26.40 | 2.27 |
| 16 | 8.00 | 26.70 | 1.12 |
| 17 | 8.50 | 27.10 | 1.48 |
| 18 | 9.00 | 27.40 | 1.09 |
| 19 | 9.50 | 27.70 | 1.08 |
| 20 | 10.00 | 27.90 | 0.72 |
| 21 | 10.50 | 28.10 | 0.71 |
| 22 | 11.00 | 28.40 | 1.06 |

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
( 28.4 - 45.53495 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 28.4 - 45.53495 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

WHC-SD-WM-DP-145, REV. 1

Sample Run By: KR MONTEITH 00000

< 40 DETECTION LIMIT IS 40

# LABCORE Data Entry Template for Worklist# 3789

**Analyst:** KRM **Instrument:** CARB2 _____ **Book#** 16N12C

**Method:** LA-342-100 Rev/Mod C-0

**Worklist Comment:** BY-108 TOC-02 KRM

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | TOC-02 | SOLID | 1 | 8.8 | N/A | ug/g |
| | | 2 | STD | | | | TOC-02 | Rows 11/28 MG SOLID | 2.995E3 ~~3.00E3~~ | 2.90E3 | N/A | ug/g |
| 95000118 | BY-108 (R) | 3 | SAMPLE | S95T003173 | 0 | | TOC-02 | SOLID | N/A | 4.06E3 | | ug/g |
| 95000118 | BY-108 (R) | 4 | DUP | S95T003173 | 0 | | TOC-02 | SOLID | 4.06E3 | 4.21E3 | N/A | ug/g |

## Final page for worklist # 3789

11-27-95 17:00
**Analyst Signature** **Date**

11-28-95
**Analyst Signature** **Date**

Reviewed RW Schaeffer 11/28/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

DEf^^

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

WHC-SD-WM-DP-145, REV 1

Sample: BLK  Date: 11/27/95  Time: 07:40:30

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 0.50 | 80.00 |
| 3 | 1.51 | 0.90 | 44.44 |
| 4 | 2.00 | 1.20 | 25.00 |
| 5 | 2.50 | 1.40 | 14.29 |
| 6 | 3.00 | 1.60 | 12.50 |
| 7 | 3.50 | 1.80 | 11.11 |
| 8 | 4.00 | 2.00 | 10.00 |
| 9 | 4.50 | 2.10 | 4.76 |
| 10 | 5.00 | 2.30 | 8.70 |
| 11 | 5.50 | 2.50 | 8.00 |
| 12 | 6.00 | 2.60 | 3.85 |
| 13 | 6.50 | 2.80 | 7.14 |
| 14 | 7.00 | 3.00 | 6.67 |
| 15 | 7.50 | 3.10 | 3.23 |
| 16 | 8.00 | 3.30 | 6.06 |
| 17 | 8.50 | 3.50 | 5.71 |
| 18 | 9.00 | 3.60 | 2.78 |
| 19 | 9.50 | 3.80 | 5.26 |
| 20 | 10.00 | 3.90 | 2.56 |
| 21 | 10.50 | 4.10 | 4.88 |
| 22 | 11.00 | 4.30 | 4.65 |

**SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES** 850 **TO** 859.

BLANK VALUE = 4.3 micrograms carbon
BLANK FACTOR = 4.3 / 11.00067 = +3.9E-01 ug/min Carbon

Sample Run By: Robert W Schneider 1/25/96
KR MONTEITH 00000
For KR Monteith

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/27/95 Time: 07:56:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 2.70 | 88.89 |
| 3 | 1.50 | 7.90 | 65.82 |
| 4 | 2.00 | 12.30 | 35.77 |
| 5 | 2.50 | 15.20 | 19.08 |
| 6 | 3.00 | 17.50 | 13.14 |
| 7 | 3.50 | 18.20 | 3.85 |
| 8 | 4.00 | 18.90 | 3.70 |
| 9 | 4.50 | 19.60 | 3.57 |
| 10 | 5.00 | 20.00 | 2.00 |
| 11 | 5.50 | 20.40 | 1.96 |
| 12 | 6.00 | 20.80 | 1.92 |
| 13 | 6.50 | 21.10 | 1.42 |
| 14 | 7.00 | 21.50 | 1.86 |
| 15 | 7.50 | 21.80 | 1.38 |
| 16 | 8.00 | 22.10 | 1.36 |
| 17 | 8.50 | 22.40 | 1.34 |
| 18 | 9.00 | 22.70 | 1.32 |
| 19 | 9.50 | 22.90 | 0.87 |
| 20 | 10.00 | 23.20 | 1.29 |
| 21 | 10.50 | 23.50 | 1.28 |
| 22 | 11.00 | 23.80 | 1.26 |

BLANK VALUE = 23.8 micrograms carbon
BLANK FACTOR = 23.8 / 11.0025 = +2.16E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000



WHC-SD-WM-DP-145, REV. 1

^P^

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-165, REV. 1

Sample: STS  Date: 11/27/95  Time: 09:31:49

Sample Size = 1000 uL  Analyst : KR MONTEITH
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = .39 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.10 | 0.00 |
| 2 | 1.01 | 97.30 | 95.79 |
| 3 | 1.51 | 270.50 | 64.03 |
| 4 | 2.00 | 413.30 | 34.55 |
| 5 | 2.50 | 504.70 | 18.11 |
| 6 | 3.00 | 550.40 | 8.30 |
| 7 | 3.50 | 570.70 | 3.56 |
| 8 | 4.00 | 579.10 | 1.45 |
| 9 | 4.50 | 582.10 | 0.52 |
| 10 | 5.00 | 583.60 | 0.26 |
| 11 | 5.50 | 584.10 | 0.09 |
| 12 | 6.00 | 584.60 | 0.09 |
| 13 | 6.50 | 585.00 | 0.07 |
| 14 | 7.00 | 585.40 | 0.07 |
| 15 | 7.50 | 585.60 | 0.03 |
| 16 | 8.00 | 585.90 | 0.05 |
| 17 | 8.50 | 586.20 | 0.05 |
| 18 | 9.00 | 586.50 | 0.05 |
| 19 | 9.50 | 586.70 | 0.03 |
| 20 | 10.00 | 586.90 | 0.03 |
| 21 | 10.50 | 587.20 | 0.05 |
| 22 | 11.00 | 587.40 | 0.03 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
( 587.4 - 4.289857 )(1)/(1000) = +5.831E-01 g/L Carbon
( 587.4 - 4.289857 )(1)/(1000)(12) = +4.859E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: STD  Date: 11/27/95  Time: 10:01:27

Sample Size = 200 uL  Analyst : KR MONTEITH
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = 2.16 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 30.90 | 99.03 |
| 3 | 1.50 | 169.20 | 81.74 |
| 4 | 2.01 | 381.70 | 55.67 |
| 5 | 2.51 | 520.10 | 26.61 |
| 6 | 3.01 | 573.70 | 9.34 |
| 7 | 3.51 | 590.20 | 2.80 |
| 8 | 4.00 | 595.60 | 0.91 |
| 9 | 4.50 | 597.10 | 0.25 |
| 10 | 5.00 | 598.20 | 0.18 |
| 11 | 5.50 | 598.80 | 0.10 |
| 12 | 6.00 | 599.50 | 0.12 |
| 13 | 6.50 | 600.00 | 0.08 |
| 14 | 7.00 | 600.50 | 0.08 |
| 15 | 7.50 | 600.90 | 0.07 |
| 16 | 8.00 | 601.30 | 0.07 |
| 17 | 8.50 | 601.60 | 0.05 |
| 18 | 9.00 | 602.00 | 0.07 |
| 19 | 9.50 | 602.30 | 0.05 |
| 20 | 10.00 | 602.60 | 0.05 |
| 21 | 10.50 | 602.90 | 0.05 |
| 22 | 11.00 | 603.20 | 0.05 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 603.2 - 23.76145 )(1)/(200) = +2.897E+00 g/L Carbon
( 603.2 - 23.76145 )(1)/(200)(12) = +2.414E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

P

# TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: R BLK  Date: 11/27/95  Time: 10:32:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.70 | 0.00 |
| 2 | 1.01 | 3.50 | 22.86 |
| 3 | 1.51 | 4.30 | 18.60 |
| 4 | 2.00 | 4.70 | 8.51 |
| 5 | 2.50 | 5.00 | 6.00 |
| 6 | 3.00 | 5.20 | 3.85 |
| 7 | 3.50 | 5.40 | 3.70 |
| 8 | 4.00 | 5.60 | 3.57 |
| 9 | 4.50 | 5.80 | 3.45 |
| 10 | 5.00 | 6.00 | 3.33 |
| 11 | 5.50 | 6.20 | 3.23 |
| 12 | 6.00 | 6.40 | 3.13 |
| 13 | 6.50 | 6.60 | 3.03 |
| 14 | 7.00 | 6.90 | 4.35 |
| 15 | 7.50 | 7.00 | 1.43 |
| 16 | 8.00 | 7.20 | 2.78 |
| 17 | 8.50 | 7.40 | 2.70 |
| 18 | 9.00 | 7.70 | 3.90 |
| 19 | 9.50 | 7.90 | 2.53 |
| 20 | 10.00 | 8.00 | 1.25 |
| 21 | 10.50 | 8.30 | 3.61 |
| 22 | 11.00 | 8.40 | 1.19 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
( 8.4 - 4.289214 )(1)/(1) = +4.1E+00 g/L Carbon
( 8.4 - 4.289214 )(1)/(1)(12) = +3.4E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-245, REV. 1

Sample: R BLK  Date: 11/27/95  Time: 10:44:31

Sample Size = 1 uL  Analyst : KR MONTEITH
Dil Factor = 1  Min Readings = 22
Blank ID # =  Max Readings = 22
Blank Value = 2.16 ug/minute C  % Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.30 | 0.00 |
| 2 | 1.01 | 1.70 | 82.35 |
| 3 | 1.51 | 5.40 | 68.52 |
| 4 | 2.00 | 7.70 | 29.87 |
| 5 | 2.50 | 9.10 | 15.38 |
| 6 | 3.00 | 9.80 | 7.14 |
| 7 | 3.50 | 10.40 | 5.77 |
| 8 | 4.00 | 10.80 | 3.70 |
| 9 | 4.50 | 11.20 | 3.57 |
| 10 | 5.00 | 11.50 | 2.61 |
| 11 | 5.50 | 12.00 | 4.17 |
| 12 | 6.00 | 12.20 | 1.64 |
| 13 | 6.50 | 12.50 | 2.40 |
| 14 | 7.00 | 12.80 | 2.34 |
| 15 | 7.50 | 13.10 | 2.29 |
| 16 | 8.00 | 13.50 | 2.96 |
| 17 | 8.50 | 13.70 | 1.46 |
| 18 | 9.00 | 14.00 | 2.14 |
| 19 | 9.50 | 14.30 | 2.10 |
| 20 | 10.00 | 14.50 | 1.38 |
| 21 | 10.50 | 14.80 | 2.03 |
| 22 | 11.00 | 15.00 | 1.33 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 15 - 23.7633 )(1)/(1) = < 5.00 E-3 g/L Carbon
( 15 - 23.7633 )(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: 3173 Date: 11/27/95 Time: 11:10:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 0.10 | 0.00 |
| 2 | 1.01 | 9.80 | 98.98 |
| 3 | 1.51 | 119.30 | 91.79 |
| 4 | 2.00 | 314.80 | 62.10 |
| 5 | 2.50 | 485.40 | 35.15 |
| 6 | 3.00 | 600.00 | 19.10 |
| 7 | 3.50 | 675.40 | 11.16 |
| 8 | 4.00 | 722.70 | 6.54 |
| 9 | 4.50 | 751.10 | 3.78 |
| 10 | 5.00 | 770.70 | 2.54 |
| 11 | 5.50 | 783.60 | 1.65 |
| 12 | 6.00 | 793.40 | 1.24 |
| 13 | 6.50 | 801.30 | 0.99 |
| 14 | 7.00 | 807.60 | 0.78 |
| 15 | 7.50 | 813.40 | 0.71 |
| 16 | 8.00 | 818.10 | 0.57 |
| 17 | 8.50 | 822.40 | 0.52 |
| 18 | 9.00 | 826.50 | 0.50 |
| 19 | 9.50 | 829.80 | 0.40 |
| 20 | 10.00 | 833.10 | 0.40 |
| 21 | 10.50 | 836.10 | 0.36 |
| 22 | 11.00 | 838.80 | 0.32 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
( 838.8 - 4.289547 )(1)/(1) = +8.345E+02 g/L Carbon
( 838.8 - 4.289547 )(1)/(1)(12) = +6.954E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 3173 Date: 11/27/95 Time: 11:26:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.16 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| Reading | Analysis Time | Coulometer | % Difference |
|---|---|---|---|
| 1 | 0.51 | 3.80 | 0.00 |
| 2 | 1.00 | 27.50 | 86.18 |
| 3 | 1.50 | 127.90 | 78.50 |
| 4 | 2.00 | 307.80 | 58.45 |
| 5 | 2.50 | 479.10 | 35.75 |
| 6 | 3.00 | 589.50 | 18.73 |
| 7 | 3.50 | 651.20 | 9.47 |
| 8 | 4.00 | 685.60 | 5.02 |
| 9 | 4.50 | 708.80 | 3.27 |
| 10 | 5.00 | 725.90 | 2.36 |
| 11 | 5.50 | 739.60 | 1.85 |
| 12 | 6.00 | 750.70 | 1.48 |
| 13 | 6.50 | 760.10 | 1.24 |
| 14 | 7.00 | 768.70 | 1.12 |
| 15 | 7.50 | 775.70 | 0.90 |
| 16 | 8.00 | 784.40 | 1.11 |
| 17 | 8.50 | 791.70 | 0.92 |
| 18 | 9.00 | 797.60 | 0.74 |
| 19 | 9.50 | 802.50 | 0.61 |
| 20 | 10.00 | 807.70 | 0.64 |
| 21 | 10.50 | 812.80 | 0.63 |
| 22 | 11.00 | 817.50 | 0.57 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 817.5 - 23.75921 )(1)/(1) = +7.937E+02 g/L Carbon
( 817.5 - 23.75921 )(1)/(1)(12) = +6.615E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{793.7}{.1957} = 4.06E^3$

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: 3173 Date: 11/27/95 Time: 11:44:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 2.60 | 0.00 |
| 2 | 1.01 | 16.20 | 83.95 |
| 3 | 1.50 | 120.70 | 86.58 |
| 4 | 2.00 | 250.60 | 51.84 |
| 5 | 2.50 | 354.20 | 29.25 |
| 6 | 3.00 | 434.30 | 18.44 |
| 7 | 3.50 | 488.00 | 11.00 |
| 8 | 4.00 | 524.80 | 7.01 |
| 9 | 4.50 | 548.10 | 4.25 |
| 10 | 5.00 | 564.90 | 2.97 |
| 11 | 5.50 | 577.30 | 2.15 |
| 12 | 6.00 | 586.80 | 1.62 |
| 13 | 6.50 | 595.00 | 1.38 |
| 14 | 7.00 | 601.80 | 1.13 |
| 15 | 7.50 | 607.60 | 0.95 |
| 16 | 8.00 | 613.60 | 0.98 |
| 17 | 8.50 | 618.50 | 0.79 |
| 18 | 9.00 | 623.10 | 0.74 |
| 19 | 9.50 | 627.50 | 0.70 |
| 20 | 10.00 | 631.30 | 0.60 |
| 21 | 10.50 | 635.10 | 0.60 |
| 22 | 11.00 | 640.10 | 0.78 |

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
( 640.1 - 4.289547 )(1)/(1) = +6.358E+02 g/L Carbon
( 640.1 - 4.289547 )(1)/(1)(12) = +5.298E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 3173 Date: 11/27/95 Time: 11:56:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.16 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

| == Reading | ==== Analysis Time | ==== Coulometer | ==== % Difference == |
|---|---|---|---|
| 1 | 0.51 | 4.30 | 0.00 |
| 2 | 1.01 | 38.30 | 88.77 |
| 3 | 1.51 | 147.10 | 73.96 |
| 4 | 2.00 | 299.60 | 50.90 |
| 5 | 2.50 | 411.40 | 27.18 |
| 6 | 3.00 | 475.80 | 13.54 |
| 7 | 3.50 | 511.80 | 7.03 |
| 8 | 4.00 | 532.80 | 3.94 |
| 9 | 4.50 | 548.60 | 2.88 |
| 10 | 5.00 | 560.20 | 2.07 |
| 11 | 5.50 | 570.40 | 1.79 |
| 12 | 6.00 | 579.10 | 1.50 |
| 13 | 6.50 | 586.20 | 1.21 |
| 14 | 7.00 | 593.40 | 1.21 |
| 15 | 7.50 | 599.00 | 0.93 |
| 16 | 8.00 | 604.50 | 0.91 |
| 17 | 8.50 | 609.00 | 0.74 |
| 18 | 9.00 | 613.60 | 0.75 |
| 19 | 9.50 | 618.60 | 0.81 |
| 20 | 10.00 | 623.60 | 0.80 |
| 21 | 10.50 | 627.40 | 0.61 |
| 22 | 11.00 | 631.30 | 0.62 |

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
( 631.3 - 23.75921 )(1)/(1) = +6.075E+02 g/L Carbon
( 631.3 - 23.75921 )(1)/(1)(12) = +5.063E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{607.5}{.1444} = 4.21E^{3}$

859

NHC-SD-WM-DP-165, REV. 0

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WHC-SD-WM-DP-145, REV. 1

# RADIOCHEMICAL ANALYSES

860

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# LABCORE Data Entry Template for Worklist# 2063

**Analyst:** AKL **Instrument:** AB00 16 WB 27806 **Book #** 132852

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 BLNK/BKG | 2.92 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 SAMPLE | S95T001391 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 SAMPLE | S95T001391 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 DUP | S95T001391 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 DUP | S95T001391 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 SPK | S95T001391 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 7 SAMPLE | S95T001398 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 7 SAMPLE | S95T001398 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 8 DUP | S95T001398 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 8 DUP | S95T001398 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 9 SPK | S95T001398 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2063

Aleta Lewis

Sharon L Walker 8-24-95

*Data Entry Comments:*

For S95T 00 1391 Low SPK recovery ^ is acceptable due to low sample alpha activity. [illegible] 8/28/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2063

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | Analyst Signature | | | Date | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 4138 | 4317 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 137.853 | 143.820 |
| | Sample Concentration in µCi/L | | 2.95E-02 | BOOK# |
| WORKLIST#2063 | Replicate Concentration in µCi/L | | 3.08E-02 | 132852 |
| WB37806 | Average Concentration in µCi/L | | 3.0152E-02 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/22/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 3.02E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.0% | 7.10E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Data Entry by: | Shawn Johnson | Date: | 08/23/95 |
| Approved by: | [illegible] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | BLANK | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| BLANK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 7 | 7 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.448 | 2.448 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.153 | 0.153 |
| | Sample Concentration in µCi/g | | 1.34E-03 | BOOK# |
| S95T1391 | Replicate Concentration in µCi/g | | 1.34E-03 | |
| WB27506 | Average Concentration in µCi/g | | 1.3410E-03 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 1.34E-03 | DETECTION LEVEL |
| | | | | 2.90E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 130.6% | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 10 | 10 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.448 | 2.448 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.253 | 0.253 |
| | Sample Concentration in µCi/g | | 2.22E-03 | BOOK# |
| S95T1391 | Replicate Concentration in µCi/g | | 2.22E-03 | |
| | | | | |
| WB77606 | Average Concentration in µCi/g | | 2.2156E-03 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 2.22E-03 | |
| | | | | 2.90E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 90.8% | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work Line | TOTAL COUNTS | (TC) | 15 | 15 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Alpha Set # | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.424 | 2.424 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.420 | 0.420 |
| Batch # | Sample Concentration in µCi/g | | 3.71E-03 | BOOK# |
| S95T1391 | Replicate Concentration in µCi/g | | 3.71E-03 | |
| Analyst Initials | | | | |
| WB27808 | Average Concentration in µCi/g | | 3.7095E-03 | |
| Date Time | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.71E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 64.9% | 2.93E-03 µCi/g |

Data Entry by: Sharon Littlefield Date: 08/23/95

Approved by: [illegible] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 16 | 16 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | | (TC) | 48493 | 47731 |
| 2063 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.100 | 0.100 |
| Test Code | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | | (Dg/L) | 2.448 | 2.448 |
| Matrix | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | | (SVal) | 44.78 | 44.78 |
| S95T1391 | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.2104 | 0.2104 |
| Instrument Code | SAMPLE + SPIKE µCi/g | | (S+S) | 1.41E+01 | 1.39E+01 |
| WB27806 | AVERAGE or MAXIMUM µCi/g from FORM C | | | 2.2156E-03 | |
| Analyst | BOOK# | | | 112B43 | |
| AKL | | | | | |
| Date | | | | | |
| 08/22/95 | | | | | |
| Time | | | | | |
| 02:00 PM | | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT **AVG. PERCENT SPIKE RECOVERY = 76.7%**

| | | | |
|---|---|---|---|
| Data Entry by: | Shawna Hale | Date: | 23-Aug-95 |
| Approved by: | [illegible] | Date: | 8/23/95 |

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 31 | 50 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.04 | 2.04 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.953 | 1.587 |
| | Sample Concentration in µCi/g | | 2.00E-02 | BOOK# |
| 505T1368 | Replicate Concentration in µCi/g | | 3.33E-02 | |
| | | | | |
| WB27806 | Average Concentration in µCi/g | | 2.6657E-02 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 2.67E-02 | DETECTION LEVEL |
| | | | | 6.96E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 39.6% | |

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 08/23/95 |
| Approved by: | | Date: | 8/23/95 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 42 | 42 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.004 | 2.004 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.320 | 1.320 |
| | Sample Concentration in µCi/g | | 2.82E-02 | BOOK# |
| S95T1398 | Replicate Concentration in µCi/g | | 2.82E-02 | |
| WB27806 | Average Concentration in µCi/g | | 2.8204E-02 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 2.82E-02 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 33.0% | 7.09E-03 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

869

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

## AT : LA-508-101 (D-2)

## LA-548-101 (A-3) SOLIDS

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 58184 | 51564 |
| 2063 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.08 | 0.08 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.050 | 0.050 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.04 | 2.04 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | (SVal) | 44.78 | 44.78 |
| S95T1398 | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| Instrument Code | SAMPLE + SPIKE µCi/g | (S+S) | 4.07E+01 | 3.61E+01 |
| WB27806 | AVERAGE or MAXIMUM µCi/g from FORM C | | 2.6857E-02 | |
| Analyst | BOOK# | | 112B43 | |
| AKL | | | | |
| Date | | | | |
| 08/22/95 | | | | |
| Time | | | | |
| 02:00 PM | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 87.4%

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 23-Aug-95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_X Rev. 1.3

# LABCORE Data Entry Template for Worklist# 2064

**Analyst:** AKL **Instrument:** AB00 LS WB 26872 **Book #** 132852

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | Sa 0.97 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001400 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001400 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001400 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001400 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 | SPK | S95T001400 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001405 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001405 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001405 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001405 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 9 | SPK | S95T001405 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2064

A Lewis 8-22-95 Sharon L Holden 8-24-95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2064

| GROUP | PROJECT | S TYPE | SAMPLE# | R A -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | Analyst Signature | | | Date | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 4243 | 4180 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 141.263 | 139.163 |
| | Sample Concentration in µCi/L | | 2.67E-02 | BOOK# |
| WORKLIST#2064 | Replicate Concentration in µCi/L | | 2.63E-02 | 132B52 |
| WB26872 | Average Concentration in µCi/L | | 2.6537E-02 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/22/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 2.65E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.0% | 8.37E-08 µCi/mL |

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | BLANK | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 15 | 15 |
| BLANK | DISH SIZE 1 , 2 , or 5 | (MS) | | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | | 7 | 3 |
| 2064 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 2.132 | 2.132 |
| Matrix | EFFICIENCY FACTOR | (EFF) | | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.255 | 0.176 |
| Sample # | Sample Concentration in µCi/g | | < | 2.26E-03 | BOOK# |
| 395T1400 | Replicate Concentration in µCi/g | | < | 1.56E-03 | |
| Instrument | | | | | |
| WB29572 | Maximum Concentration in µCi/g | | < | 2.2606E-03 | |
| Analyst | | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| Date Analyzed | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 08/22/95 | | | | | |
| Time | Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100 | | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | | |
|---|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) | = | < 2.26E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rmax. | | | | | 3.92E-03 µCi/g |
| RELATIVE COUNTING ERROR | | | = | 500.0% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon L Walling | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 14 | 7 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.132 | 2.132 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.297 | 0.255 |
| | Sample Concentration in µCi/g | | 2.63E-03 | BOOK# |
| 395T1403 | Replicate Concentration in µCi/g | < | 2.26E-03 | |
| | | | | |
| WB29572 | Maximum Concentration in µCi/g | < | 2.6336E-03 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 2.63E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | 3.92E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 358.8% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon Luoff | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| [redacted] | DETECTOR NUMBER | | 15 | 15 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| [redacted] | TOTAL COUNTS | (TC) | 21 | 19 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| [redacted] | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| [redacted] | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.36 | 2.36 |
| [redacted] | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.530 | 0.463 |
| [redacted] | Sample Concentration in µCi/g | | 4.25E-03 | BOOK# |
| S95T1400 | Replicate Concentration in µCi/g | | 3.72E-03 | |
| [redacted] | | | | |
| WB26572 | Average Concentration in µCi/g | | 3.9831E-03 | |
| [redacted] | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| [redacted] | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| [redacted] | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.98E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 69.2% | 3.54E-03 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 15 | 15 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 53787 | 53712 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Sample # | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.100 | 0.100 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.132 | 2.132 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch # | SPIKE VALUE in µCi/L | (SVal) | 44.779 | 44.779 |
| S95T1400 | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.238 | 0.238 |
| Instrument Code | SAMPLE + SPIKE µCi/g | (S+S) | 1.59E+01 | 1.89E+01 |
| WB20872 | AVERAGE or MAXIMUM µCi/g from FORM C | | <2.6398E-3 | |
| Analyst | BOOK# | | 112B43 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| 08/22/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | |
| Time | | | | |
| 02:00 PM | | | | |

RESULT **AVG. PERCENT SPIKE RECOVERY = 82.8%**

| | | | |
|---|---|---|---|
| Data Entry by: | Shawna L Holden | Date: | 24-Aug-95 |
| Approved by: | | Date: | |

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 12 | 15 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.228 | 2.228 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.230 | 0.330 |
| | Sample Concentration in µCi/g | | 1.95E-03 | BOOK# |
| S95T1405 | Replicate Concentration in µCi/g | | 2.80E-03 | |
| WB26572 | Average Concentration in µCi/g | | 2.3786E-03 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 2.38E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 117.5% | 3.75E-03 µCi/g |

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 13 | 11 |
| 2064 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 2.34 | 2.34 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.263 | 0.197 |
| | Sample Concentration in µCi/g | | 2.13E-03 | BOOK# |
| S95T1405 | Replicate Concentration in µCi/g | | 1.59E-03 | |
| WB26572 | Average Concentration in µCi/g | | 1.8603E-03 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 1.86E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 133.3% | 3.57E-03 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | Shyron Effold | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

## AT : LA-508-101 (D-2)

## LA-548-101 (A-3) SOLIDS

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 15 | 15 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | | (MS) | 2 | 2 |
| Work Unit | TOTAL COUNTS | | (TC) | 56385 | 57104 |
| 2064 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| AT or TO? | BACKGROUND in cpm | | (BKG) | 0.17 | 0.17 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.100 | 0.100 |
| Test Code | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | | (Dg/L) | 2.228 | 2.228 |
| Matrix | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| Spike Id | SPIKE VALUE in µCi/L | | (SVal) | 44.779 | 44.779 |
| S95T1405 | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.238 | 0.238 |
| Instrument Code | SAMPLE + SPIKE µCi/g | | (S+S) | 1.65E+01 | 1.62E+01 |
| WB20872 | AVERAGE or MAXIMUM µCi/g from FORM C | | | 2.3786E-03 | |
| Analyst | BOOK# | | | 112B43 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| Date | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | | |
| 08/22/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | | |
| Time | | | | | |
| 02:00 PM | | | | | |

RESULT | AVG. PERCENT SPIKE RECOVERY = 81.3%

Data Entry by: Sharon L Wall Date: 24-Aug-95

Approved by: Date:

# LABCORE Data Entry Template for Worklist# 2068

**Analyst:** S.C.L **Instrument:** AB00 16 WB27806 **Book #** 132B52

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Use .050 mL sample volume. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | 0.53 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001423 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001423 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001423 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001423 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 | SPK | S95T001423 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001424 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 7 | SAMPLE | S95T001424 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001424 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 8 | DUP | S95T001424 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 9 | SPK | S95T001424 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2068

Sue C Lai 8-28-95 Sharon Valde 8-29-95

*Data Entry Comments:*
spike: 112B43

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2068

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | Analyst Signature | | | Date | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 4200 | 4253 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 139.780 | 141.547 |
| | Sample Concentration in µCi/L | | 2.99E-02 | BOOK# |
| WORKLIST#2068 | Replicate Concentration in µCi/L | | 3.03E-02 | 132B52 |
| WB27506 | Average Concentration in µCi/L | | 3.0115E-02 | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/28/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 3.01E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.0% | 1.05E-07 µCi/mL |

Data Entry by: Steven L. Hofer Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | BLANK | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 16 | 16 |
| BLANK | DISH SIZE 1, 2, or 5 | (MS) | | 2 | 2 |
| Work Unit | TOTAL COUNTS | (TC) | | 3 | 4 |
| 2068 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | | 0.050 | 0.050 |
| Test Code | DILUTION FACTOR | (DF) | | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 1.616 | 1.616 |
| Matrix | EFFICIENCY FACTOR | (EFF) | | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.200 | 0.200 |
| Sample # | Sample Concentration in µCi/g | | < | 5.29E-03 | BOOK# |
| S95T1423 | Replicate Concentration in µCi/g | | < | 5.29E-03 | |
| Instrument Code | | | | | |
| WB27806 | Maximum Concentration in µCi/g | | < | 5.2947E-03 | |
| Analyst | | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| Date Analyzed | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 08/28/95 | | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | | |
|---|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) | = | < 5.29E-03 | DETECTION LEVEL |
| LESS Than Value was Determined from Lc. | | | | | 1.30E-02 µCi/g |
| RELATIVE COUNTING ERROR | | | = | 245.4% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Shyron L Rafter | Date: | 08/29/95 |
| Approved by: | [signature] | Date: | 8/29/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 9 | 23 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.616 | 1.616 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.297 | 0.547 |
| | Sample Concentration in µCi/g | < | 7.88E-03 | BOOK# |
| S95T1423 | Replicate Concentration in µCi/g | | 1.45E-02 | |
| WD27906 | Maximum Concentration in µCi/g | < | 1.4485E-02 | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 1.45E-02 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | 1.30E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 500.0% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon L Walsh | Date: | 08/29/95 |
| Approved by: | [signature] | Date: | 8/29/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 15 | 6 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.628 | 1.628 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.280 | 0.200 |
| Sample# | Sample Concentration in µCi/g | | 7.36E-03 | BOOK# |
| S95T1423 | Replicate Concentration in µCi/g | < | 5.26E-03 | |
| Instrument Code | | | | |
| WB27506 | Maximum Concentration in µCi/g | < | 7.3644E-03 | |
| Analyst | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 7.36E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | 1.29E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 500.0% | |

Data Entry by: Steven L Holder Date: 08/29/95

Approved by: [illegible] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 58202 | 58212 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyte | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.050 | 0.050 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.616 | 1.616 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | (SVal) | 44.778 | 44.778 |
| S95T1423 | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| Instrument Code | SAMPLE + SPIKE µCi/g | (S+S) | 5.14E+01 | 4.96E+01 |
| WB27806 | AVERAGE or MAXIMUM µCi/g from FORM C | | <1.4485E-2 | |
| Analyst | BOOK# | | 112B43 | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| 08/28/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | |
| Time | | | | |
| 03:00 PM | | | | |

RESULT **AVG. PERCENT SPIKE RECOVERY = 91.2%**

Data Entry by: Sharon Griffith Date: 29-Aug-95

Approved by: [illegible] Date: 8/29/95

Form 508101_X Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 17 | 10 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.9876 | 1.9876 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.347 | 0.337 |
| | Sample Concentration in µCi/g | | 7.47E-03 | BOOK# |
| S95T1424 | Replicate Concentration in µCi/g | < | 7.27E-03 | |
| | | | | |
| WB27506 | Maximum Concentration in µCi/g | < | 7.4682E-03 | |
| | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 7.47E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | |
| RELATIVE COUNTING ERROR | | = | 234.9% | 1.06E-02 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon L Hofer | Date: | 08/29/95 |
| Approved by: | [illegible] | Date: | 8/29/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

## AT : LA-508-101 (D-2)

## LA-548-101 (A-3) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 95 | 89 |
| 2068 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.9988 | 1.9988 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 2.947 | 2.747 |
| Submitted | Sample Concentration in µCi/g | | 6.31E-02 | BOOK# |
| S95T1424 | Replicate Concentration in µCi/g | | 5.88E-02 | |
| Book Number Suffix | | | | |
| WB27806 | Average Concentration in µCi/g | | 6.0982E-02 | |
| Analyst | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date Analyzed | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 6.10E-02 | DETECTION LEVEL |
| | | | | 1.05E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 23.3% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon J. Fowler | Date: | 08/29/95 |
| Approved by: | [illegible] | Date: | 8/29/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 16 | 16 |
| SPIKE | DISH SIZE 1, 2, or 5 | | (MS) | 2 | 2 |
| Work Unit | TOTAL COUNTS | | (TC) | 58749 | 56926 |
| 2068 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.050 | 0.050 |
| Test Code | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | | (Dg/L) | 1.9876 | 1.9876 |
| Matrix | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | | (SVal) | 44.778 | 44.778 |
| S95T1424 | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.2104 | 0.2104 |
| Instrument Code | SAMPLE + SPIKE µCi/g | | (S+S) | 4.22E+01 | 4.09E+01 |
| WB27806 | AVERAGE or MAXIMUM µCi/g from FORM C | | | 7.4682E-3 | |
| Analyst | BOOK# | | | 112843 | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| Date Analyzed | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | | |
| 08/28/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | | |
| Time | | | | | |
| 03:00 PM | | | | | |

RESULT **AVG. PERCENT SPIKE RECOVERY = 92.2%**

Data Entry by: Shyan Lyttolden Date: 29-Aug-95

Approved by: [illegible] Date: 8/29/95

Form 508101_X Rev. 1.3

worklistrpt Version 2.1 05/15/95
08/22/95 09:05



# LABCORE Data Entry Template for Worklist# 2069

**Analyst:** S.C.L. **Instrument:** AB00 14 UB27807 **Book #** 132B52

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | 1.67 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001482 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001482 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001482 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001482 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 | SPK | S95T001482 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2069

Sue C Lai 8-22-95
**Analyst Signature** **Date**

EM Dockler 8-22-95
**Analyst Signature** **Date**
Sharon L Walsh 8-24-95

*Data Entry Comments:*

spike : 112B43

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 4371 | 4094 |
| 2069 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.28 | 0.28 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 145.420 | 136.187 |
| Sample # | Sample Concentration in µCi/L | | 2.88E-02 | BOOK# |
| WORKLIST#2069 | Replicate Concentration in µCi/L | | 2.70E-02 | 132B52 |
| Instrument Code | | | | |
| WB27807 | Average Concentration in µCi/L | | 2.7891E-02 | |
| Analyst | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/22/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 2.79E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.1% | 1.07E-07 µCi/mL |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/23/95 |
| Approved by: | [signature] | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | BLANK | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 14 | 14 |
| BLANK | DISH SIZE 1, 2, or 5 | (MS) | | 2 | 2 |
| | TOTAL COUNTS | (TC) | | 13 | 15 |
| 2069 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | | 0.28 | 0.28 |
| AT | SAMPLE SIZE in mL | (SS) | | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 4.342 | 4.342 |
| | EFFICIENCY FACTOR | (EFF) | | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.408 | 0.486 |
| | Sample Concentration in µCi/g | | < | 1.88E-02 | BOOK# |
| 595T1462 | Replicate Concentration in µCi/g | | < | 2.24E-02 | |
| | | | | | |
| WBX7607 | Maximum Concentration in µCi/g | | < | 2.2396E-02 | |
| | | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 08/22/95 | | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | | |
|---|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) | = | < 2.24E-02 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rmax. | | | | | 2.50E-02 µCi/g |
| RELATIVE COUNTING ERROR | | | = | 197.1% | |

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 08/23/95 |
| Approved by: | | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work Line | TOTAL COUNTS | (TC) | 12 | 14 |
| 2069 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.28 | 0.28 |
| AT | SAMPLE SIZE in mL | (SS) | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.342 | 4.342 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.368 | 0.447 |
| | Sample Concentration in µCi/g | < | 1.70E-02 | BOOK# |
| S95T1482 | Replicate Concentration in µCi/g | < | 2.06E-02 | |
| | | | | |
| WB27607 | Maximum Concentration in µCi/g | < | 2.0595E-02 | |
| | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/22/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 2.06E-02 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rmax. | | | | 2.50E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 245.9% | |

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | SAMPLE | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 14 | 14 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | | 2 | 2 |
| | TOTAL COUNTS | (TC) | | 12 | 11 |
| 2069 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | | 0.28 | 0.28 |
| AT | SAMPLE SIZE in mL | (SS) | | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 4.2728 | 4.2728 |
| | EFFICIENCY FACTOR | (EFF) | | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.368 | 0.329 |
| | Sample Concentration in µCi/g | | < | 1.73E-02 | BOOK# |
| S95T1462 | Replicate Concentration in µCi/g | | < | 1.54E-02 | |
| | | | | | |
| WB27507 | Maximum Concentration in µCi/g | | < | 1.7251E-02 | |
| | | | | | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 08/22/95 | | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | | |
| 03:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | | |
|---|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) | = | < 1.73E-02 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rmax. | | | | | 2.54E-02 µCi/g |
| RELATIVE COUNTING ERROR | | | = | 332.0% | |

| | | | |
|---|---|---|---|
| Data Entry by: Sharon Lipfert | | Date: | 08/23/95 |
| Approved by: [signature] | | Date: | 8/23/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 66915 | 64569 |
| 2069 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.28 | 0.28 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 1.000 | 1.000 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.342 | 4.342 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | (SVal) | 44.779 | 44.779 |
| S95T1452 | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| Instrument Code | SAMPLE + SPIKE µCi/g | (S+S) | 1.03E+02 | 9.92E+01 |
| WB27507 | AVERAGE or MAXIMUM µCi/g from FORM C | | <2.0595E-2 | |
| Analyst | BOOK# | | 112B43 | |
| SCL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| 08/22/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | |
| Time | | | | |
| 03:00 PM | | | | |

RESULT **AVG. PERCENT SPIKE RECOVERY = 96.9%**

Data Entry by: Sharon L Walker Date: 24-Aug-95

Approved by: Date:

Form 508101_X Rev. 1.3

WHC-CD-WM DP-145, REV. 1



# LABCORE Data Entry Template for Worklist# 2101

**Analyst:** ADP **Instrument:** AB00 14 WB 27B07 **Book #** 132B52 STD

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | 0-64 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001425 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001425 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001425 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001425 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 | SPK | S95T001425 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2101

Anthony Pierantoni 8-28-95
Analyst Signature Date

Sharon L Holder 8-29-95
Analyst Signature Date

*Data Entry Comments:* 132 B52 - STD A-SPIKE # 112B43
Added Spike Directly to Planchet
High RPD is acceptable due to low sample alpha activity. 8/30/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

## AT : LA-508-101 (D-2)

## LA-548-101 (A-3) LIQUIDS

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 4041 | 4371 |
| 2101 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or LA # | BACKGROUND in cpm | (BKG) | 0.55 | 0.55 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 134.150 | 145.150 |
| Sample # | Sample Concentration in µCi/L | | 2.66E-02 | BOOK# |
| WORKLIST#2101 | Replicate Concentration in µCi/L | | 2.88E-02 | 132B52 |
| Instrument Code | | | | |
| WB27807 | Average Concentration in µCi/L | | 2.7663E-02 | |
| Analyst | | | | |
| ADP | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/28/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 07:30 AM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 2.77E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.1% | 1.43E-07 µCi/mL |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon G Holden | Date: | 08/28/95 |
| Approved by: | [signature] | Date: | 8/28/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | BLANK | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 14 | 14 |
| BLANK | DISH SIZE 1, 2, or 5 | (MS) | | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | | 11 | 10 |
| 2101 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | | 0.55 | 0.55 |
| AT | SAMPLE SIZE in mL | (SS) | | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | | 11 | 11 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 1.63 | 1.63 |
| | EFFICIENCY FACTOR | (EFF) | | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.316 | 0.316 |
| | Sample Concentration in µCi/g | | < | 4.22E-02 | BOOK# |
| S95T1425 | Replicate Concentration in µCi/g | | < | 4.22E-02 | |
| WB27807 | Maximum Concentration in µCi/g | | < | 4.2236E-02 | |
| ADP | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 09/28/95 | | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | | |
| 07:30 AM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 4.22E-02 | DETECTION LEVEL |
| LESS Than Value was Determined from Lc. | | | | 9.66E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 186.9% | |

Data Entry by: Shawn Y Holder Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 78 | 63 |
| 2101 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.55 | 0.55 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 11 | 11 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.63 | 1.63 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 2.050 | 1.550 |
| Batch # | Sample Concentration in µCi/g | | 2.74E-01 | BOOK# |
| S95T1425 | Replicate Concentration in µCi/g | | 2.07E-01 | |
| Instrument Code | | | | |
| WB27507 | Average Concentration in µCi/g | | 2.4062E-01 | |
| Analyst | | | | |
| ADP | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 07:30 AM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 2.41E-01 | DETECTION LEVEL |
| | | | | 9.66E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 37.6% | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/29/95 |
| Approved by: | [signature] | Date: | 8/29/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| DUPLICATE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 92 | 80 |
| 2101 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyte | BACKGROUND in cpm | (BKG) | 0.55 | 0.55 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 11 | 11 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.6128 | 1.6128 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 2.517 | 2.117 |
| Sample # | Sample Concentration in µCi/g | | 3.40E-01 | BOOK# |
| S95T1425 | Replicate Concentration in µCi/g | | 2.86E-01 | |
| Date Received | | | | |
| WB27507 | Average Concentration in µCi/g | | 3.1299E-01 | |
| Analyst | | | | |
| ADP | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 07:30 AM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.13E-01 | DETECTION LEVEL |
| | | | | 9.76E-02 µCi/g |
| RELATIVE COUNTING ERROR | | = | 30.3% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Shyron Jeffalls | Date: | 08/29/95 |
| Approved by: | [illegible] | Date: | 8/29/95 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 14 | 14 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | | (MS) | 2 | 2 |
| | TOTAL COUNTS | | (TC) | 70415 | 80520 |
| 2101 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| | BACKGROUND in cpm | | (BKG) | 0.55 | 0.55 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.100 | 0.100 |
| | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 11 | 11 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | | (Dg/L) | 1.63 | 1.63 |
| | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| | SPIKE VALUE in µCi/L | | (SVal) | 44.779 | 44.779 |
| S95T1425 | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.2274 | 0.2274 |
| | SAMPLE + SPIKE µCi/g | | (S+S) | 3.14E+02 | 3.59E+02 |
| WB27807 | AVERAGE or MAXIMUM µCi/g from FORM C | | | 2.4042E-01 | |
| | BOOK# | | | 112843 | |
| ADP | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | | |
| 08/28/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | | |
| Time | | | | | |
| 07:30 AM | | | | | |

RESULT | AVG. PERCENT SPIKE RECOVERY = 111.2%

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 29-Aug-95 |
| Approved by: | [signature] | Date: | 8/29/95 |

Form 508101_X Rev. 1.3

# LABCORE Data Entry Template for Worklist# 2103

**Analyst:** AKL **Instrument:** AB00 13 WB27810 **Book #** 132652

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | 0.46 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001480 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 | SAMPLE | S95T001480 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001480 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 | DUP | S95T001480 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 | SAMPLE | S95T001481 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 6 | SAMPLE | S95T001481 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 7 | DUP | S95T001481 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 7 | DUP | S95T001481 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |

## Final page for worklist # 2103

G Lewis 8/25/95
**Analyst Signature** **Date**

Em Barela 8-26-95
**Analyst Signature** **Date**
Sharon L Holden 8-28-95

*Data Entry Comments:* High RPD is acceptable due to low sample alpha activity. No rerun requested. 8/30/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 13 | 13 |
| STANDARD | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 4456 | 4451 |
| 2103 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or LB # | BACKGROUND in cpm | (BKG) | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2322 | 0.2322 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 148.420 | 148.187 |
| Sample # | Sample Concentration in µCi/L | | 2.88E-02 | BOOK# |
| WORKLIST#2103 | Replicate Concentration in µCi/L | | 2.87E-02 | 132B52 |
| Instrument Code | | | | |
| WB27810 | Average Concentration in µCi/L | | 2.8770E-02 | |
| Analyst | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 08/25/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 2.88E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 2.9% | 8.77E-08 µCi/mL |

Data Entry by: Shaun Lafield Date: 08/28/95

Approved by: [signature] Date: 8/28/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

## AT : LA-508-101 (D-2)

## LA-548-101 (A-3) SOLIDS

| | | | | BLANK | REPLICATE |
|---|---|---|---|---|---|
| Type | DETECTOR NUMBER | | | 13 | 13 |
| BLANK | DISH SIZE 1 , 2 , or 5 | (MS) | | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | | 2 | 3 |
| 2103 | COUNT TIME in MINUTES | (CT) | | 30 | 30 |
| AT or LA # | BACKGROUND in cpm | (BKG) | | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | | 1.000 | 1.000 |
| Test Code | DILUTION FACTOR | (DF) | | 34.33 | 34.33 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | | 4.3948 | 4.3948 |
| Matrix | EFFICIENCY FACTOR | (EFF) | | 0.2322 | 0.2322 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | | 0.181 | 0.181 |
| Sample # | Sample Concentration in µCi/g | | < | 2.74E-03 | BOOK# |
| S95T1480 | Replicate Concentration in µCi/g | | < | 2.74E-03 | |
| Preparation Batch | | | | | |
| WB27810 | Maximum Concentration in µCi/g | | < | 2.7390E-03 | |
| Analyst | | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | | |
| 08/25/95 | | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | | |

v RESULTS v

| | | | | | |
|---|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) | = | < 2.74E-03 | DETECTION LEVEL |
| LESS Than Value was Determined from Lc. | | | | | 6.85E-03 µCi/g |
| RELATIVE COUNTING ERROR | | | = | 236.7% | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/28/95 |
| Approved by: | [signature] | Date: | 8/28/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 13 | 13 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 16 | 25 |
| 2103 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | 1.000 | 1.000 |
| Test Code | DILUTION FACTOR | (DF) | 34.33 | 34.33 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.3948 | 4.3948 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2322 | 0.2322 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.353 | 0.653 |
| Sample# | Sample Concentration in µCi/g | | 5.35E-03 | BOOK# |
| S95T1480 | Replicate Concentration in µCi/g | | 9.90E-03 | |
| Instrument Code | | | | |
| WBZ7610 | Average Concentration in µCi/g | | 7.6274E-03 | |
| Analyst | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/25/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 7.63E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 85.5% | 6.85E-03 µCi/g |

Data Entry by: Shannon [illegible] Date: 08/28/95

Approved by: [illegible] Date: 8/28/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 13 | 13 |
| DUPLICATE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work Line | TOTAL COUNTS | (TC) | 15 | 11 |
| 2103 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | 34.33 | 34.33 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.2908 | 4.2908 |
| | EFFICIENCY FACTOR | (EFF) | 0.2322 | 0.2322 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.320 | 0.187 |
| | Sample Concentration in µCi/g | | 4.97E-03 | BOOK# |
| S95T1480 | Replicate Concentration in µCi/g | | 2.90E-03 | |
| WB27610 | Average Concentration in µCi/g | | 3.9320E-03 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/25/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.93E-03 | DETECTION LEVEL |
| | | | | 7.02E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 141.7% | |

| | | | |
|---|---|---|---|
| Data Entry by: | Elyse L Hall | Date: | 08/28/95 |
| Approved by: | [illegible] | Date: | 8/28/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 13 | 13 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work Line | TOTAL COUNTS | (TC) | 8 | 14 |
| 2103 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | 34.33 | 34.33 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.1152 | 4.1152 |
| | EFFICIENCY FACTOR | (EFF) | 0.2322 | 0.2322 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.288 | 0.287 |
| | Sample Concentration in µCi/g | < | 4.66E-03 | BOOK# |
| S95T1481 | Replicate Concentration in µCi/g | | 4.64E-03 | |
| | | | | |
| WB27810 | Maximum Concentration in µCi/g | < | 4.6608E-03 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/25/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 4.66E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | 7.32E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 500.0% | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 08/28/95 |
| Approved by: | [signature] | Date: | 8/28/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 13 | 13 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 12 | 10 |
| 2103 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.18 | 0.18 |
| AT | SAMPLE SIZE in mL | (SS) | 1.000 | 1.000 |
| | DILUTION FACTOR | (DF) | 34.33 | 34.33 |
| ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 4.1476 | 4.1476 |
| | EFFICIENCY FACTOR | (EFF) | 0.2322 | 0.2322 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.220 | 0.369 |
| | Sample Concentration in µCi/g | | 3.53E-03 | BOOK# |
| S95T1481 | Replicate Concentration in µCi/g | < | 5.93E-03 | |
| WB27810 | Maximum Concentration in µCi/g | < | 5.9277E-03 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 08/28/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:30 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 5.93E-03 | DETECTION LEVEL |
| LESS THAN Value was Determined from Rs. | | | | 7.26E-03 µCi/g |
| RELATIVE COUNTING ERROR | | = | 167.2% | |

Data Entry by: Sharon Gifford Date: 08/28/95

Approved by: [signature] Date: 8/28/95

Form 508101_C Rev. 1.3

# LABCORE Data Entry Template for Worklist# 2232

**Analyst:** AKL **Instrument:** AB00 15 **Book #** 140852

WB 26822

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 BLNK/BKG | 0.63 | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 4 SAMPLE | S95T001426 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000104 | BY-108 (R) | 4 SAMPLE | S95T001426 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000104 | BY-108 (R) | 5 DUP | S95T001426 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000104 | BY-108 (R) | 5 DUP | S95T001426 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000104 | BY-108 (R) | 6 SPK | S95T001426 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2232

G Lewis
**Analyst Signature** **Date**

Sharon L Hale 9.7.95
**Analyst Signature** **Date**

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) LIQUIDS**

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| STANDARD | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 4136 | 4431 |
| #2232 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.16 | 0.16 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST DILUTION FACTOR | (DDF) | 1 | 1 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 137.707 | 147.540 |
| | Sample Concentration in µCi/L | | 2.61E-02 | BOOK# |
| WORKLIST#2232 | Replicate Concentration in µCi/L | | 2.79E-02 | 140B52 |
| | | | | |
| WB26572 | Average Concentration in µCi/L | | 2.6994E-02 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / ( EFF * SS * 2220000dpm/µCi ) | | | |
| 09/05/95 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/mL | (Average) = | 2.70E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 3.1% | 8.17E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 09/06/95 |
| Approved by: | [signature] | Date: | 9/7/95 |

Form 508101_C Rev. 1.3

911

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | BLANK | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 15 | 15 |
| BLANK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 3 | 0 |
| 2232 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyst | BACKGROUND in cpm | (BKG) | 0.16 | 0.16 |
| AT | SAMPLE SIZE in mL | (SS) | 0.300 | 0.300 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.1268 | 1.1268 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.170 | 0.170 |
| Batch # | Sample Concentration in µCi/g | < | 9.64E-02 | BOOK# |
| 5951428 | Replicate Concentration in µCi/g | < | 9.64E-02 | |
| Exp. Date | | | | |
| WB28672 | Maximum Concentration in µCi/g | < | 9.6366E-02 | |
| Analyst | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 09/05/95 | | | | |
| Time | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Maximum) = | < 9.64E-02 | DETECTION LEVEL |
| LESS Than Value was Determined from Lc. | | | | 2.44E-01 µCi/g |
| RELATIVE COUNTING ERROR | | = | 500.0% | |

Data Entry by: Sharon Lybyle Date: 09/06/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| SAMPLE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work Line | TOTAL COUNTS | (TC) | 24 | 23 |
| 2232 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.16 | 0.16 |
| AT | SAMPLE SIZE in mL | (SS) | 0.300 | 0.300 |
| | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.1268 | 1.1268 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.640 | 0.607 |
| | Sample Concentration in µCi/g | | 3.62E-01 | BOOK# |
| 595T1428 | Replicate Concentration in µCi/g | | 3.43E-01 | |
| WB26872 | Average Concentration in µCi/g | | 3.5249E-01 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 09/05/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.52E-01 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 56.8% | 2.44E-01 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | Sherry Effyler | Date: | 09/06/95 |
| Approved by: | [illegible] | Date: | 9/7/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| DUPLICATE | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 27 | 26 |
| 2232 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.16 | 0.16 |
| AT | SAMPLE SIZE in mL | (SS) | 0.300 | 0.300 |
| | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.2524 | 1.2524 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.740 | 0.707 |
| | Sample Concentration in µCi/g | | 3.76E-01 | BOOK# |
| S95T1426 | Replicate Concentration in µCi/g | | 3.60E-01 | |
| | | | | |
| WB26872 | Average Concentration in µCi/g | | 3.6802E-01 | |
| | | | | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) | | | |
| 09/05/95 | | | | |
| | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 | | | |
| 02:00 PM | Detection Levels and Less Than Values are determined from Procedure LA-508-002. | | | |

v RESULTS v

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | (Average) = | 3.68E-01 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | = | 51.3% | 2.20E-01 µCi/g |

| | | | |
|---|---|---|---|
| Data Entry by: | Sharon L Holden | Date: | 09/06/95 |
| Approved by: | [signature] | Date: | 9/7/95 |

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

**AT : LA-508-101 (D-2)**

**LA-548-101 (A-3) SOLIDS**

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 15 | 15 |
| SPIKE | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 69631 | 69264 |
| 2232 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TE ? | BACKGROUND in cpm | (BKG) | 0.16 | 0.16 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.300 | 0.300 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 101 | 101 |
| ΦALPHA01 | DIGEST GRAMS of SOLIDS/L | (Dg/L) | 1.1268 | 1.1268 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Sample # | SPIKE VALUE in µCi/L | (SVal) | 44.777 | 44.777 |
| S95T1426 | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.238 | 0.238 |
| Instrument Code | SAMPLE + SPIKE µCi/g | (S+S) | 1.31E+03 | 1.31E+03 |
| WB26872 | AVERAGE or MAXIMUM µCi/g from FORM C | | 3.5249E-01 | |
| Analyst | BOOK# | | 112B43 | |
| AKL | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Date | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| 09/05/95 | PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100 | | | |
| Time | | | | |
| 02:00 PM | | | | |

RESULT **AVG. PERCENT SPIKE RECOVERY = 97.8%**

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 06-Sep-95 |
| Approved by: | [signature] | Date: | 9/7/95 |

Form 508101_X Rev. 1.3

# LABCORE Data Entry Template for Worklist# 2794

**Analyst:** RK **Instrument:** AB00 WB27807 **Book #** 140B52

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002012 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002012 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002012 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002012 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002012 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002013 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002013 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002013 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002013 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002013 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2794

Rob Kimp 10/9/95 M S [illegible] 10/10/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2794

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | | Analyst Signature | | | Date | |
| [illegible] | | 10/9/95 | | | | | | | | | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WORKBOOK PAGE: STD1

# AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| STD | DISH SIZE ( 1, 2, or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 4178 | 4435 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 140B52 | 140B52 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 139.017 | 147.583 |
| Batch Number | Standard Value in µCi/mL | | 2.96E-05 | |
| 95003010 | Concentration in µCi/L | = | 2.75E-02 | |
| Rerun | Replicate Concentration in µCi/L | = | 2.92E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 2.8386E-02 | |

Sample Prep: N/A

Sample #: WRKLST#2794

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | | 2.84E-05 | 1.02E-07 µCi/mL |
| RELATIVE COUNTING ERROR | = | | 3.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

STANDARD.WB1 Rev. 1.0 508101NL

WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 9 | 19 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0104 | 2.0104 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.273 | 0.383 |
| Batch Number | | | | |
| 95003010 | Blank Concentration in µCi/g | < | 5.44E-02 | |
| Rerun | Replicate Concentration in µCi/g | | 7.63E-02 | |
| 0 | Maximum Concentration in µCi/g | < | 7.6296E-02 | |

Sample Prep: N/A

Sample #: S95T2012

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 7.63E-02 | |
| | LESS THAN Value was Determined from | | 1.03E-01 µCi/g |
| RELATIVE COUNTING ERROR | | 500.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 31 | 36 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0104 | 2.0104 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.783 | 1.017 |

| | | |
|---|---|---|
| Batch Number | | |
| 95003010 | Blank Concentration in µCi/g | 1.56E-01 |
| Rerun | Replicate Concentration in µCi/g | 2.02E-01 |
| 0 | Average Concentration in µCi/g | 1.7913E-01 |

Sample Prep: FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

Sample #: S95T002012

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Instrument Code: WB27807

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.79E-01 | |
| RELATIVE COUNTING ERROR | | 51.8% | 1.03E-01 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | SLF | | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 35 | 35 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0308 | 2.0308 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.917 | 0.917 |

| | |
|---|---|
| Batch Number | |
| 95003010 | Blank Concentration in µCi/g 1.81E-01 |
| Rerun | Replicate Concentration in µCi/g 1.81E-01 |
| 0 | Average Concentration in µCi/g 1.8061E-01 |

Sample Prep: FUSION01

Sample #: S95T002012

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.81E-01 | |
| RELATIVE COUNTING ERROR | | 46.5% | 1.02E-01 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 66223 | 69602 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0104 | 2.0104 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003010 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| Rerun | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 4.39E+02 | 4.62E+02 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 1.7913E-01 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002012 | | | | |
| Instrument Code | | | | |
| WB27807 | | | | |
| Prepared By | | | | |
| MCB | | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| RWK | | | | |
| Date Complete | | | | |
| 10/10/95 | | | | |
| Analysis Date | | | | |
| 10/09/95 | | | | |
| Analysis Time | | | | |
| 03:00 PM | | | | |
| Sample Point | | | | |
| BY-108 | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.48E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 100.1% |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

## AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 49 | 50 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1056 | 2.1056 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.383 | 1.417 |
| Batch Number | | | | |
| 95003010 | Blank Concentration in µCi/g | | 2.63E-01 | |
| Rerun | Replicate Concentration in µCi/g | | 2.69E-01 | |
| 0 | Average Concentration in µCi/g | | 2.6605E-01 | |

Sample Prep: FUSION01

Sample #: S95T002013

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 2.66E-01 | 9.82E-02 µCi/g |
| RELATIVE COUNTING ERROR | | 35.5% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 10-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP8

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 60 | 61 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0956 | 2.0956 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.417 | 1.783 |

| | |
|---|---|
| Blank Concentration in µCi/g | 2.70E-01 |
| Replicate Concentration in µCi/g | 3.41E-01 |
| Average Concentration in µCi/g | 3.0551E-01 |

Batch Number: 95003010

Rerun: 0

Sample Prep: FUSION01

Sample #: S95T002013

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 3.06E-01 | 9.87E-02 µCi/g |
| RELATIVE COUNTING ERROR | | 35.0% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 64553 | 66977 |
| 2794 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1056 | 2.1056 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003010 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| Rerun | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 4.09E+02 | 4.24E+02 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 2.6605E-01 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002013 | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Instrument Code | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| WB27807 | QC ACTUAL = SVal | | | |
| Prepared By | QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L)))) | | | |
| MCB | PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100 | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| RWK | | | | |
| Date Complete | | | | |
| 10/10/95 | | | | |
| Analysis Date | | | | |
| 10/09/95 | QC ACTUAL | = | 4.48E-02 | |
| Analysis Time | QC FOUND | = | 4.34E-02 | |
| 03:00 PM | AVG. PERCENT SPIKE RECOVERY | = | 96.9% | |
| Sample Point | | | | |
| BY-108 | | | | |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML



I:\508101\OUT\AT2794.WB1 10/10/95

# LABCORE Data Entry Template for Worklist# 2795

**Analyst:** Kim Thomas **Instrument:** AB00 WB27807 **Book #** 147852

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 SAMPLE | S95T002010 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 SAMPLE | S95T002010 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 DUP | S95T002010 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 DUP | S95T002010 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 SPK | S95T002010 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 SAMPLE | S95T002011 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 SAMPLE | S95T002011 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 DUP | S95T002011 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 DUP | S95T002011 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 SPK | S95T002011 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2795

Kim Thomas

10/11/95

*Data Entry Comments:*

The high RPD for 2011 is acceptable due to low sample alpha activity. The low spk recovery for this sample is also acceptable due to the low activity.

10/17/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2795

| GROUP | PROJECT | S TYPE | SAMPLE# | R A -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | Analyst Signature | | | Date | |
| Kim Thomas | | 10-10-95 | | | | | | | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WORKBOOK PAGE: STD1

# AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Instrument | GROSS COUNTS | (GC) | 2927 | 2987 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analysis | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 97.367 | 99.367 |
| Batch Number | Standard Value in µCi/mL | | ~~1.695-05~~ 1.92E-5 JB 12/18/95 | |
| 95003011 | Concentration in µCi/L | = | 1.93E-02 | |
| Replicate | Replicate Concentration in µCi/L | = | 1.97E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 1.9485E-02 | |

Sample Prep: N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Worksheet: WRKLST#2795

Instrument Code: WB27807

Prepared by: MCB

Checked: SLF

Reviewed: KNT

Data Complete: 10/11/95

Analysis Date: 10/10/95

Analysis Time: 11:25 PM

Sample Point: BY-108

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 1.95E-05 | 9.34E-08 µCi/mL |
| RELATIVE COUNTING ERROR | = | 3.6% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/16/95 | |

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Instr. Type | GROSS COUNTS | (GC) | 13 | 16 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyte | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Lab Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0408 | 2.0408 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.233 | 0.333 |
| Batch Number | | | | |
| 95003011 | Blank Concentration in µCi/g | | 4.53E-04 | |
| Aliquot | Replicate Concentration in µCi/g | | 6.47E-04 | |
| 0 | Average Concentration in µCi/g | | 5.5003E-04 | |

Sample Prep
N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Sample #
S95T2010

Instrument Code
WB27807

Prepared By
MCB

Chemist
SLF

Analyst
KNT

Date Completed
10/11/95

Analysis Date
10/10/95

Analysis Time
11:25 PM

Sample Point
BY-108

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 5.50E-04 | |
| RELATIVE COUNTING ERROR | | 122.0% | 9.16E-04 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/16/95 | |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work Unit | GROSS COUNTS | (GC) | 14 | 21 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Ar Weight | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0408 | 2.0408 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.267 | 0.500 |

| | | |
|---|---|---|
| Batch Number | | |
| 95003011 | Blank Concentration in µCi/g | 5.18E-04 |
| Replicate | Replicate Concentration in µCi/g | 9.71E-04 |
| 0 | Average Concentration in µCi/g | 7.4415E-04 |

Sample Prep
FUSION01

Sample #
S95T002010

Instrument Code
WB27807

Prepared By
MCB

Chemist
SLF

Approved
KNT

Date Completed
10/11/95

Analysis Date
10/10/95

Analysis Time
11:25 PM

Sample Point
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 7.44E-04 | |
| RELATIVE COUNTING ERROR | | 109.6% | 9.16E-04 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 11/16/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 9 | 21 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0376 | 2.0376 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.313 | 0.500 |

| | | | |
|---|---|---|---|
| 95003011 | Blank Concentration in µCi/g | < | 6.09E-04 |
| | Replicate Concentration in µCi/g | | 9.72E-04 |
| 0 | Maximum Concentration in µCi/g | < | 9.7216E-04 |

FUSION01

S95T002010

WB27807

MCB

SLF

KNT

10/11/95

10/10/95

11:25 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 9.72E-04 | |
| | LESS THAN Value was Determined from | | 9.17E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 253.0% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 63807 | 61065 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0408 | 2.0408 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003011 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 4.13E+00 | 3.95E+00 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 7.4415E-04 | |
| FUSION01 | | | | |
| | | | | |
| S95T002010 | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| WB27807 | QC ACTUAL = SVal | | | |
| | QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L)))) | | | |
| MCB | PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100 | | | |
| | | | | |
| SLF | | | | |
| | | | | |
| KNT | | | | |
| | | | | |
| 10/11/95 | | | | |
| | | | | |
| 10/10/95 | QC ACTUAL | = | 4.48E-02 | |
| | QC FOUND | = | 4.12E-02 | |
| 11:25 PM | AVG. PERCENT SPIKE RECOVERY | = | 92.1% | |
| | | | | |
| BY-108 | | | | |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

## AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 275 | 286 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.052 | 2.052 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 8.967 | 9.333 |

| | |
|---|---|
| Blank Concentration in µCi/g | 1.73E-02 |
| Replicate Concentration in µCi/g | 1.80E-02 |
| Average Concentration in µCi/g | 1.7666E-02 |

95003011

0

Sample Prep

FUSION01

S95T002011

Instrument Code

WB27807

Prepared By

MCB

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Chemist

SLF

Analyst

KNT

Date Completed

10/11/95

Analysis Date

10/10/95

Analysis Time

11:25 PM

Sample Point

BY-108

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.77E-02 | 9.11E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 12.2% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/16/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

933

WORKBOOK PAGE: DUP8 WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 189 | 159 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0572 | 2.0572 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 6.100 | 5.100 |

| | |
|---|---|
| 95003011 | Blank Concentration in µCi/g 1.17E-02 |
| | Replicate Concentration in µCi/g 9.82E-03 |
| 0 | Average Concentration in µCi/g 1.0784E-02 |

Sample Prep
FUSION01

Sample #
S95T002011

Instrument Code
WB27807

Prepared By
MCB

Chemist
SLF

Analyst
KNT

Data Complete
10/11/95

Analytic Date
10/10/95

Analytic Time
11:25 PM

Sample Pulls
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.08E-02 | 9.08E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 16.5% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 46739 | 47714 |
| 2795 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.2 | 0.2 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.052 | 2.052 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003011 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 3.01E+00 | 3.07E+00 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 1.7666E-02 | |

Sample Prep: FUSION01

Sample #: S95T002011

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: KNT

Date Completed: 10/11/95

Analysis Date: 10/10/95

Analysis Time: 11:25 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 3.10E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 69.2% |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SPIKE.WB1 Rev. 1.0 508101ML

worklistrpt Version 2.1 05/15/95
10/06/95 09:28



# LABCORE Data Entry Template for Worklist# 2796

**Analyst:** BR **Instrument:** AB00 16 **Book #** 147B52

**Method:** LA-508-101 Rev/Mod ~~D-2~~ SLF 10/12/95 D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002008 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002008 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002008 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002008 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002008 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002009 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002009 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002009 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002009 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002009 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2796

Rob King 10/10/95 SE Hogan 10/11/95

*Data Entry Comments:*

Low SPK recovery for Sample 2008 is acceptable due to the low activities of the sample.

[illegible] 10/12/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2796

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | Analyst Signature | | | Date | |
| Rob King | | 10/10/95 | | | | | | | | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: STD1

## AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 2097 | 3625 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 99.800 | 94.067 |
| | Standard Value in µCi/mL | | ~~1.00E-05~~ | 1.92E-5 JO 14/18/95 |
| 95003012 | Concentration in µCi/L | = | 2.14E-02 | |
| | Replicate Concentration in µCi/L | = | 2.01E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 2.0753E-02 | |

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

[redacted]

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 2.08E-05 | |
| RELATIVE COUNTING ERROR | = | 3.7% | 7.71E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

STANDARD.WB1 Rev. 1.0 508101ML



I:\508101\OUT\AT2796.WB1 10/16/95

WORKBOOK PAGE: BLANK2

WHC-SD-WM-DP-145, REV 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 2 | 4 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.004 | 2.004 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.135 | 0.179 |

| | | | |
|---|---|---|---|
| 95003012 | Blank Concentration in µCi/g | < | 1.44E-03 |
| | Replicate Concentration in µCi/g | < | 1.91E-03 |
| 0 | Maximum Concentration in µCi/g | < | 1.9107E-03 |

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB27B08 Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

| | | | | |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | < 1.91E-03 | DETECTION LEVEL |
| RWK | | LESS Than Value was Determined from L | | 3.85E-03 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | | 500.0% | |

10/10/95

02:00 PM

BY-198

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

BLANK.WB1 Rev. 1.0 508101ML



I:\508101\OUT\AT2796.WB1 10/16/95

WORKBOOK PAGE: SAM4

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 9 | 9 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.004 | 2.004 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.200 | 0.200 |

| | |
|---|---|
| 95003012 | Blank Concentration in µCi/g 2.14E-03 |
| | Replicate Concentration in µCi/g 2.14E-03 |
| 0 | Average Concentration in µCi/g 2.1367E-03 |

FUSION01

S95T002008

WB27108

SEH

SLF

KYK

10/11/95

10/10/95

02:00 PM

BY-300

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 2.14E-03 | 3.85E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 113.2% | |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 05 | 10 |
| DUP | DISH SIZE ( 1, 2, or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 0 | 10 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0052 | 2.0052 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.265 | 0.233 |

| | | | |
|---|---|---|---|
| 95003012 | Blank Concentration in µCi/g | < | 2.83E-03 |
| | Replicate Concentration in µCi/g | | 2.49E-03 |
| 0 | Maximum Concentration in µCi/g | < | 2.8294E-03 |

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002008

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

10/11/95

SEH

SLF

RWK

10/16/95

02:00 PM

BY-100

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 2.83E-03 | |
| | LESS THAN Value was Determined from | | 3.84E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 196.0% | |

| | | | |
|---|---|---|---|
| Analyst: | SEH | | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 46769 | 46938 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.100 | 0.100 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.004 | 2.004 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003012 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 1.74E+01 | 1.78E+01 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 2.1367E-03 | |

FUSION01

S95T002008

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

WB27B08

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

SEH

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

SLF

RWK

10/11/95

| | | | |
|---|---|---|---|
| 10/16/95 | QC ACTUAL | = | 4.48E-02 |
| | QC FOUND | = | 3.52E-02 |
| 02:00 PM | AVG. PERCENT SPIKE RECOVERY | = | 78.7% |

BY:108

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

## AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 18 | 18 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 9 | 1 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0424 | 2.0424 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.222 | 0.135 |

| | | | |
|---|---|---|---|
| 95003012 | Blank Concentration in µCi/g | < | 4.66E-03 |
| | Replicate Concentration in µCi/g | < | 2.82E-03 |
| 0 | Maximum Concentration in µCi/g | < | 4.6590E-03 |

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002009

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WE2T100 Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| SLF | ALPHA TOTAL in µCi/g | < 4.66E-03 | |
| RYK | LESS THAN Value was Determined from | | 7.55E-03 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | 500.0% | |

10/16/95

02:00 PM

BY-150

| | | | |
|---|---|---|---|
| Analyst: | SEH | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/17/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP6

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 10 | 10 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 1 | 8 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0376 | 2.0376 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.135 | 0.167 |

| | | | |
|---|---|---|---|
| 95003012 | Blank Concentration in µCi/g | < | 2.83E-03 |
| | Replicate Concentration in µCi/g | | 3.50E-03 |
| 0 | Maximum Concentration in µCi/g | < | 3.5024E-03 |

FUSION01

S95T002009

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

SLF

RWK

10/11/95

10/16/95

02:00 PM

BY-106

v RESULTS v

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 3.50E-03 | | |
| | LESS Than Value was Determined from L | | | 7.57E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 500.0% | | |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP6

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 10 | 10 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 1 | 0 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0376 | 2.0376 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.135 | 0.167 |

| | | | |
|---|---|---|---|
| 95003012 | Blank Concentration in µCi/g | < | 2.83E-03 |
| | Replicate Concentration in µCi/g | | 3.60E-03 |
| 0 | Maximum Concentration in µCi/g | < | 3.5024E-03 |

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002009

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB2796

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | < 3.50E-03 | |
| RMK | | LESS Than Value was Determined from L | | |
| 10/11/95 | RELATIVE COUNTING ERROR | | 500.0% | 7.57E-03 µCi/g |

10/10/95

02:00 PM

BY-508

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 18 | 18 |
| SPK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 62928 | 62588 |
| 2796 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.050 | 0.050 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0424 | 2.0424 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003012 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 4.40E+01 | 4.37E+01 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | < | 4.6590E-03 | |

FUSION01

S95T002009

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

WB2796

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

SEH

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

SLF

RWK

NOTE: **Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.**

10/11/95

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.48E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 100.0% |

10/10/95

02:00 PM

BY-108

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/17/95 |

SPIKE.WB1 Rev. 1.0 508101M1

# LABCORE Data Entry Template for Worklist# 2797

**Analyst:** KR **Instrument:** AB00 WB27806 **Book #** 140852

**Method:** LA-508-101 Rev/Mod D/2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002003 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002003 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002003 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002003 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002003 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002004 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002004 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002004 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002004 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002004 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2797

10/9/95 10/10/95

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2797

| GROUP | PROJECT | S TYPE | SAMPLE# | R A -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | Analyst Signature | | | Date | |
| Rob King | | 10/9/95 | | | | | | | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: STD1

# AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 4375 | 4562 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 140B52 | 140B52 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 145.733 | 151.633 |
| Batch Number | Standard Value in µCi/mL | | 2.96E-05 | |
| 95003013 | Concentration in µCi/L | = | 3.12E-02 | |
| Rerun | Replicate Concentration in µCi/L | = | 3.25E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 3.1832E-02 | |

Sample Prep: N/A

Sample #: WRKLST#2797

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 3.18E-05 | | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | = | 3.0% | | 7.71E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

STANDARD.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: BLANK2

## AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work Unit | GROSS COUNTS | (GC) | 5 | 5 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0312 | 2.0312 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.222 | 0.265 |

| | | | |
|---|---|---|---|
| Batch Number | | | |
| 95003013 | Blank Concentration in µCi/g | < | 2.34E-03 |
| Rerun | Replicate Concentration in µCi/g | < | 2.79E-03 |
| 0 | Maximum Concentration in µCi/g | < | 2.7932E-03 |

Sample Prep: N/A

Sample # S95T2003

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 2.79E-03 | DETECTION LEVEL |
| | LESS THAN Value was Determined from | | |
| RELATIVE COUNTING ERROR | | 500.0% | 3.80E-03 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 10-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 25 | 8 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0312 | 2.0312 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.733 | 0.167 |

| | |
|---|---|
| Batch Number | |
| 95003013 | Blank Concentration in µCi/g 7.73E-03 |
| Rerun | Replicate Concentration in µCi/g 1.76E-03 |
| 0 | Average Concentration in µCi/g 4.7431E-03 |
| Sample Prep | |
| FUSION01 | Rs (Sample Count Rate) = (TC / CT) - BKG |
| Sample # | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) |
| S95T002003 | |
| Instrument Code | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 |
| WB27806 | Detection Levels and Less Than Values are determined from Procedure LA-508-002. |
| Prepared By | |
| MCB | |
| Chemist | v RESULTS v |
| SLF | ALPHA TOTAL in µCi/g 4.74E-03 |
| Analyst | |
| RWK | |
| Date Complete | |
| 10/10/95 | RELATIVE COUNTING ERROR 130.0% |
| Analysis Date | |
| 10/09/95 | |
| Analysis Time | |
| 03:40 PM | |
| Sample Point | |
| BY-108 | |

| DETECTION LEVEL |
|---|
| |
| 3.80E-03 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 10-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 22 | 13 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0224 | 2.0224 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.633 | 0.333 |
| Batch Number | | | | |
| 95003013 | Blank Concentration in µCi/g | | 6.70E-03 | |
| Rerun | Replicate Concentration in µCi/g | | 3.53E-03 | |
| 0 | Average Concentration in µCi/g | | 5.1166E-03 | |

Sample Prep: FUSION01

Sample #: S95T002003

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 5.12E-03 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | | 78.4% | 3.81E-03 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1, 2, or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 59241 | 58029 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.100 | 0.100 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0312 | 2.0312 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003013 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| Rerun | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 2.08E+01 | 2.04E+01 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 4.7431E-03 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002003 | | | | |
| Instrument Code | | | | |
| WB27806 | | | | |
| Prepared By | | | | |
| MCB | | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| RWK | | | | |
| Date Complete | | | | |
| 10/10/95 | | | | |
| Analysis Date | | | | |
| 10/09/95 | | | | |
| Analysis Time | | | | |
| 03:40 PM | | | | |
| Sample Point | | | | |
| BY-108 | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.18E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 93.4% |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML



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WORKBOOK PAGE: SAM7

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 22 | 16 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0152 | 2.0152 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.667 | 0.500 |

| | |
|---|---|
| Batch Number | |
| 95003013 | Blank Concentration in µCi/g 7.08E-03 |
| Rerun | Replicate Concentration in µCi/g 5.31E-03 |
| 0 | Average Concentration in µCi/g 6.1973E-03 |

Sample Prep: FUSION01

Sample #: S95T002004

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 6.20E-03 | 3.83E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 59.9% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP8

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 11 | 30 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.024 | 2.024 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.267 | 0.900 |

| | | |
|---|---|---|
| Batch Number | | |
| 95003013 | Blank Concentration in µCi/g | 2.82E-03 |
| Rerun | Replicate Concentration in µCi/g | 9.52E-03 |
| 0 | Average Concentration in µCi/g | 6.1703E-03 |

Sample Prep: FUSION01

Sample #: S95T002004

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 6.17E-03 | 3.81E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 91.7% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 10-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML



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WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 58180 | 57107 |
| 2797 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.100 | 0.100 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0152 | 2.0152 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003013 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| Rerun ? | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 2.06E+01 | 2.02E+01 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 6.1973E-03 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002004 | | | | |
| Instrument Code | | | | |
| WB27806 | | | | |
| Prepared By | | | | |
| MCB | | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| RWK | | | | |
| Date Complete | | | | |
| 10/10/95 | | | | |
| Analysis Date | | | | |
| 10/09/95 | | | | |
| Analysis Time | | | | |
| 03:40 PM | | | | |
| Sample Point | | | | |
| BY-108 | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.11E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 91.9% |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML

# LABCORE Data Entry Template for Worklist# 2820

**Analyst:** Kim Thomas **Instrument:** AB00 14 **Book #** 147852

**Method:** LA-508-101 Rev/Mod 0-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002006 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002006 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002006 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002006 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002006 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002007 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002007 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002007 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002007 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002007 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2820

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2820

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | Analyst Signature | | | Date | |
| Kim Thomas | | 10-9-95 | | | | C.J. Quinn | | | 10-11-95 | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WORKBOOK PAGE: STD1

## AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 2936 | 2715 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.24 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 97.617 | 90.283 |
| | Standard Value in µCi/mL | | ~~1.69E-05~~ | 1.92E-5 JB |
| 95003042 | Concentration in µCi/L | = | 1.93E-02 | |
| | Replicate Concentration in µCi/L | = | 1.79E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 1.8610E-02 | |

| | |
|---|---|
| Sample Prep | |
| N/A | Rs (Sample Count Rate) = (TC / CT) - BKG |
| | ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi ) |
| WORKLIST#2829 | ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L |
| Instrument Code | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 |
| WB27807 | Detection Levels and Less Than Values are determined from Procedure LA-508-002. |
| Prepared By | |
| CJO | |
| Chemist | |
| SLF | |
| Analyst | |
| KNT | |
| Date Completed | |
| 10/11/95 | |
| Analysis Date | |
| 10/09/95 | |
| Analysis Time | |
| 07:30 PM | |
| Sample Matrix | |
| BY-108 | |

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | | 1.86E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | = | | 3.8% | 1.02E-07 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | CJO | | Date: 11-Oct-95 |
| Signature of Chemist: | SLF | | Date: 10/11/95 |

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 16 | 20 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1188 | 2.1188 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.283 | 0.417 |

| | |
|---|---|
| Batch Number | |
| 95003042 | Blank Concentration in µCi/g 5.30E-03 |
| | Replicate Concentration in µCi/g 7.79E-03 |
| 0 | Average Concentration in µCi/g 6.5443E-03 |

Sample Prep
N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

Sample
S95T2006-BLANK

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Instrument Code
WB27807

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
CJO

Chemist
SLF

Analyst
KNT

Date Completed
10/11/95

Analysis Date
10/09/95

Analysis Time
07:30 PM

Sample Aliquot
BY-108

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 6.54E-03 | 9.66E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 111.8% | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 14 | 14 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1188 | 2.1188 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.217 | 0.217 |

| | |
|---|---|
| Blank Concentration in µCi/g | 4.05E-03 |
| Replicate Concentration in µCi/g | 4.05E-03 |
| Average Concentration in µCi/g | 4.0512E-03 |

95003042

0

FUSION01

S95T002006

WB27807

CJO

SLF

KNT

10/11/95

10/09/95

07:30 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 4.05E-03 | |
| RELATIVE COUNTING ERROR | | 139.8% | 9.66E-03 µCi/g |

| | | | |
|---|---|---|---|
| Analyst: | CJO | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5 WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 8 | 15 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1128 | 2.1128 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.233 | 0.250 |

| | | | |
|---|---|---|---|
| 95003042 | Blank Concentration in µCi/g | < | 4.37E-03 |
| | Replicate Concentration in µCi/g | | 4.69E-03 |
| 0 | Maximum Concentration in µCi/g | < | 4.6878E-03 |

Sample Prep: FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002006

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB27807

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared by: CJO

v RESULTS v

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | < 4.69E-03 | |
| KNT | | LESS THAN Value was Determined from | | 9.69E-03 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | | 500.0% | |

Analyst Date: 10/09/95

Analysis Time: 07:30 PM

Sample Point: BY-108

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 63198 | 63178 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.050 | 0.050 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1188 | 2.1188 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003042 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 3.81E+01 | 3.94E+01 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 4.0512E-03 | |

FUSION01

S95T002006

WB27807

CJO

SLF

KNT

10/11/95

10/09/95

07:30 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.11E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 91.7% |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: SAM7

## AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 46 | 27 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0272 | 2.0272 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.250 | 0.650 |

| | | |
|---|---|---|
| 95003042 | Blank Concentration in µCi/g | 2.44E-02 |
| | Replicate Concentration in µCi/g | 1.27E-02 |
| 0 | Average Concentration in µCi/g | 1.8566E-02 |

FUSION01

S95T002007

WB27807

CJO

SLF

KNT

10/11/95

10/09/95

07:30 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.86E-02 | 1.01E-02 µCi/g |
| RELATIVE COUNTING ERROR | | 59.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 14 | 14 |
| DUP | DISH SIZE ( 1, 2, or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 28 | 45 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE SIZE in mL | (SS) | 0.050 | 0.050 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0316 | 2.0316 |
| | EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.617 | 1.250 |

| | |
|---|---|
| 95003042 | Blank Concentration in µCi/g 1.20E-02 |
| | Replicate Concentration in µCi/g 2.44E-02 |
| 0 | Average Concentration in µCi/g 1.8201E-02 |

Sample Prep
FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002007

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB27807

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
CJO

v RESULTS v

| | | | |
|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g 1.82E-02 | DETECTION LEVEL |
| KNT | | | |
| 10/11/95 | RELATIVE COUNTING ERROR | 61.3% | 1.01E-02 µCi/g |

Analysis Date
10/09/95

Analysis Time
07:30 PM

Sample Point
BY-108

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 14 | 14 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work Log | TOTAL COUNTS | (TC) | 66322 | 56223 |
| 2820 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| Analyte | BACKGROUND in cpm | (BKG) | 0.25 | 0.25 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.050 | 0.050 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0272 | 2.0272 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003042 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| Percent | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2274 | 0.2274 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 4.32E+01 | 3.66E+01 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 1.8566E-02 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002007 | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Instrument Code | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| WB27607 | QC ACTUAL = SVal | | | |
| Prepared By | QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L)))) | | | |
| CJO | PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100 | | | |
| Checked By | | | | |
| SLF | | | | |
| Analyst | | | | |
| KNT | | | | |
| Date Completed | | | | |
| 10/11/95 | | | | |
| Analysis Date | | | | |
| 10/09/95 | QC ACTUAL | = | 4.48E-02 | |
| Analysis Time | QC FOUND | = | 4.04E-02 | |
| 07:30 PM | AVG. PERCENT SPIKE RECOVERY | = | 90.3% | |
| Sample Point | | | | |
| BY-108 | | | | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/15/95 |

SPIKE.WB1 Rev. 1.0 508101ML

# LABCORE Data Entry Template for Worklist# 2821

**Analyst:** Kim Thomas **Instrument:** AB00 WB27809 **Book #** 147B52

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002014 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002014 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002014 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002014 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002014 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2821

Kim Thomas 10-9-95
**Analyst Signature** **Date**

[illegible] 10/10/95
**Analyst Signature** **Date**

*Data Entry Comments:*
High SPK recovery is acceptable due to low activity levels in sample. [illegible] 10/12/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WORKBOOK PAGE: STD1

## AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 2944 | 2925 |
| 2821 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.15 | 0.15 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2095 | 0.2095 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 97.983 | 97.350 |
| Batch Number | Standard Value in µCi/mL | | ~~1.69E-05~~ | 1.92E-5 gc |
| 95003043 | Concentration in µCi/L | = | 2.11E-02 | |
| Rerun | Replicate Concentration in µCi/L | = | 2.09E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 2.1000E-02 | |

Sample Prep: N/A

Sample #: WRKLST#2821

Instrument Code: WB27809

Prepared By: MCB

Chemist: SLF

Analyst: KNT

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 08:30 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

| | | | |
|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 2.10E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | = | 3.6% | 9.04E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: 10-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/11/95 | |

STANDARD.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 2 | 6 |
| 2821 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.15 | 0.15 |
| AT | SAMPLE SIZE in mL | (SS) | 0.250 | 0.250 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0048 | 2.0048 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2095 | 0.2095 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.165 | 0.228 |

| | | |
|---|---|---|
| Blank Concentration in µCi/g | < | 7.15E-02 |
| Replicate Concentration in µCi/g | < | 9.89E-02 |
| Maximum Concentration in µCi/g | < | 9.8884E-02 |

Batch Number: 95003043

Rerun: 0

Sample Prep: N/A

Sample #: S95T2014

Instrument Code: WB27809

Prepared By: MCB

Chemist: SLF

Analyst: KNT

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 08:30 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 9.89E-02 | |
| | LESS Than Value was Determined from L | | 1.82E-01 µCi/g |
| RELATIVE COUNTING ERROR | | 500.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 31 | 32 |
| 2821 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.15 | 0.15 |
| AT | SAMPLE SIZE in mL | (SS) | 0.250 | 0.250 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0048 | 2.0048 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2095 | 0.2095 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.883 | 0.917 |

| | |
|---|---|
| Blank Concentration in µCi/g | 3.83E-01 |
| Replicate Concentration in µCi/g | 3.97E-01 |
| Average Concentration in µCi/g | 3.8996E-01 |

Batch Number: 95003043
Rerun: 0
Sample Prep: FUSION01
Sample #: S95T002014
Instrument Code: WB27809
Prepared By: MCB
Chemist: SLF
Analyst: KNT
Date Complete: 10/10/95
Analysis Date: 10/09/95
Analysis Time: 08:30 PM
Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 3.90E-01 | 1.82E-01 µCi/g |
| RELATIVE COUNTING ERROR | | 44.1% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP5

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 28 | 34 |
| 2821 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TS ? | BACKGROUND in cpm | (BKG) | 0.15 | 0.15 |
| AT | SAMPLE SIZE in mL | (SS) | 0.250 | 0.250 |
| Test Code | DILUTION FACTOR | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 1.9732 | 1.9732 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2095 | 0.2095 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.717 | 0.983 |

| | |
|---|---|
| Blank Concentration in µCi/g | 3.15E-01 |
| Replicate Concentration in µCi/g | 4.33E-01 |
| Average Concentration in µCi/g | 3.7419E-01 |

Batch Number: 95003043

Remin: 0

Sample Prep: FUSION01

Sample #: S95T002014

Instrument Code: WB27809

Prepared By: MCB

Chemist: SLF

Analyst: KNT

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 08:30 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 3.74E-01 | 1.85E-01 µCi/g |
| RELATIVE COUNTING ERROR | | 50.3% | |

| | | | |
|---|---|---|---|
| Analyst: | MCB | Date: | 10-Oct-95 |
| Signature of Chemist: | SLF | Date: | 10/11/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 18 | 18 |
| SPK | DISH SIZE 1, 2, or 5 | | (MS) | 2 | 2 |
| | TOTAL COUNTS | | (TC) | 88075 | 88006 |
| 2821 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| | BACKGROUND in cpm | | (BKG) | 0.15 | 0.15 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.250 | 0.250 |
| | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 101 | 101 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | | (Dg/L) | 2.0048 | 2.0048 |
| | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | | (Spk BN) | 112B43 | 112B43 |
| 95003043 | SPIKE VALUE in µCi/mL | | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.2095 | 0.2095 |
| 0 | SAMPLE + SPIKE µCi/g | | (S+S) | 1.24E+03 | 1.27E+03 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | | 3.8996E-01 | |

FUSION01

S95T002014

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

WB27809

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

MCB

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

SLF

KNT

10/10/95

10/10/95

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 6.22E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 139.0% |

08:30 PM

B7-108

| | | | |
|---|---|---|---|
| Analyst: | | MCB | Date: 10-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/11/95 |

SPIKE.WB1 Rev. 1.0 508101ML

# LABCORE Data Entry Template for Worklist# 2824

**Analyst:** Kim Thomas **Instrument:** AB00 16 **Book #** 147B52

**Method:** LA-508-101 Rev/Mod D-2

**Worklist Comment:** Use .500 mL sample size. Use .100 mL A-SPK. RR#1. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002001 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002001 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002002 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002002 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2824

*Data Entry Comments:*

The control limits for STD 147B52 have shifted. the new limits (Placed in Labcore 10/17/95) are 107.69 ± 25.65 %. The STD recovery for 4 batch is within these limits and is therefore acceptable. [illegible] 10/17

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2824

| GROUP | PROJECT | S TYPE | SAMPLE# | R A -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | Analyst Signature | | | Date | |
| Kim Thomas | | 10-9-95 | | | SE Hogan 10/11/95 | | | | |

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: STD1

# AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 2973 | 2972 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 99.000 | 98.967 |
| | Standard Value in µCi/mL | | ~~1.00E-05~~ | 1.92 E-5 JB 12/13/95 |
| 95003046 | Concentration in µCi/L | = | 2.12E-02 | |
| | Replicate Concentration in µCi/L | = | 2.12E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 2.1192E-02 | |

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB27808

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

SLF

KNT

10/11/95

10/09/95

10:45 PM

BY-106 R

| | | | |
|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 2.12E-05 | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | = | 3.6% | 7.71E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | SEH | | Date: 11-Oct-95 |
| Signature of Chemist: | SLF | | Date: 10/16/95 |

STANDARD.WB1 Rev. 1.0 508101ML

975

WORKBOOK PAGE: BLANK2

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 3 | 5 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.135 | 0.222 |

| | | |
|---|---|---|
| Blank Concentration in µCi/g | < | 2.78E-04 |
| Replicate Concentration in µCi/g | < | 4.59E-04 |
| Maximum Concentration in µCi/g | < | 4.5916E-04 |

95003046

0

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

WB27806

SEH

SLF

KNT

10/11/95

10/09/95

10:45 PM

BY-106 R

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 4.59E-04 | |
| | LESS Than Value was Determined from L | | 7.44E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 500.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

BLANK.WB1 Rev. 1.0 508101ML



I:\508101\OUT\AT2824.WB1 10/11/95

WORKBOOK PAGE: SAM4

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 18 | 18 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 8 | 7 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.265 | 0.307 |

| | | | |
|---|---|---|---|
| 95003046 | Blank Concentration in µCi/g | < | 5.48E-04 |
| | Replicate Concentration in µCi/g | < | 6.35E-04 |
| 1 | Maximum Concentration in µCi/g | < | 6.3484E-04 |

FUSION01

S95T002001

WB27606

SEH

SLF

KNT

10/11/95

10/09/95

10:46 PM

BY-108 R

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 6.35E-04 | |
| | LESS THAN Value was Determined from | | 7.44E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 196.0% | |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

977

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP5

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| DUP | DISH SIZE ( 1, 2, or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 25 | 7 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0744 | 2.0744 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.733 | 0.307 |

| | | | |
|---|---|---|---|
| 95003046 | Blank Concentration in µCi/g | | 1.51E-03 |
| | Replicate Concentration in µCi/g | < | 6.34E-04 |
| 1 | Maximum Concentration in µCi/g | < | 1.5137E-03 |

FUSION01

S95T002001

WB27506

SEH

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | | |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | < 1.51E-03 | DETECTION LEVEL |
| KNT | | LESS THAN Value was Determined from | | 7.43E-04 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | | 155.0% | |

10/09/95

10:45 PM

BY:108 R

| | | | |
|---|---|---|---|
| Analyst: | SEH | Date: 11-Oct-95 | |
| Signature of Chemist: | SLF | Date: 10/16/95 | |

SAMPLE.WB1 Rev. 1.0 508101ML

978

WORKBOOK PAGE: SPIKE6

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| | TOTAL COUNTS | (TC) | 6 | 4 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95003046 | SPIKE VALUE in µCi/mL | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 1 | SAMPLE + SPIKE µCi/g | (S+S) | 3.44E-04 | 6.89E-05 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | < | 6.3484E-04 | |

FUSION01

S95T002001

WB27806

SEH

SLF

KNT

10/11/95

10/09/95

10:45 PM

BY-106 R

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

NOTE: **Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.**

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 2.14E-06 |
| AVG. PERCENT SPIKE RECOVERY | = | 0.0% |

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SPIKE.WB1 Rev. 1.0 508101ML

Note: Data indicate that no spk was added to the mount. 10/16/95

WORKBOOK PAGE: SAM7

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 18 | 16 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 83 | 58 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.2416 | 2.2416 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 2.000 | 1.833 |

| | |
|---|---|
| 95003046 | Blank Concentration in µCi/g 3.82E-03 |
| | Replicate Concentration in µCi/g 3.50E-03 |
| 1 | Average Concentration in µCi/g 3.6612E-03 |

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

S95T002002

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

WB27506

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

| | | | |
|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g 3.66E-03 | DETECTION LEVEL |
| KNT | | | 6.88E-04 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | 27.8% | |

10/09/95

10:48 PM

BY-109 R

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML



I:\508101\OUT\AT2824.WB1 10/11/95

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP8

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 18 | 18 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 47 | 89 |
| 2824 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.2436 | 2.2436 |
| | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.467 | 1.867 |

| | | |
|---|---|---|
| 95003046 | Blank Concentration in µCi/g | 2.80E-03 |
| | Replicate Concentration in µCi/g | 3.56E-03 |
| 1 | Average Concentration in µCi/g | 3.1808E-03 |

Sample Prep
FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002002

Relative Counting Error = { |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| } * 1.96 * 100

WB27006

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
SEH

v RESULTS v

| | | | | |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | 3.18E-03 | DETECTION LEVEL |
| KNT | | | | 6.87E-04 µCi/g |
| 10/11/95 | RELATIVE COUNTING ERROR | | 31.5% | |

Analysis Date
10/09/95

Analysis Time
10:45 PM

Instrument
BY-109 R

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 16 | 16 |
| SPK | DISH SIZE 1, 2, or 5 | | (MS) | 2 | 2 |
| | TOTAL COUNTS | | (TC) | 75 | 140 |
| 2824 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| | BACKGROUND in cpm | | (BKG) | 0.1 | 0.1 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.500 | 0.500 |
| | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | | (Dg/L) | 2.2416 | 2.2416 |
| | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | | (Spk BN) | 112B43 | 112B43 |
| 95003046 | SPIKE VALUE in µCi/mL | | (SVal) | 4.4770E-02 | 4.4770E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.2104 | 0.2104 |
| 1 | SAMPLE + SPIKE µCi/g | | (S+S) | 4.58E-03 | 8.72E-03 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | | 3.6612E-03 | |

FUSION01

S95T002002

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

WB27606

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

SEH

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

SLF

KNT

10/11/95

| | | | |
|---|---|---|---|
| 10/09/95 | QC ACTUAL | = | 4.48E-02 |
| | QC FOUND | = | 3.35E-05 |
| 10:45 PM | AVG. PERCENT SPIKE RECOVERY | = | 0.1% |

BY-106 R

| | | | |
|---|---|---|---|
| Analyst: | | SEH | Date: 11-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SPIKE.WB1 Rev. 1.0 508101ML

Note: Data indicate that no spk was added to the mount. 10/16/95

BY108

WHC-SD-WM-DP-145, REV. 1



# LABCORE Data Entry Template for Worklist# 2899

**Analyst:** Kim Thomas **Instrument:** AB00 WB26872 **Book#** 147B52

**Method:** LA-508-101 **Rev/Mod** D-2

**Worklist Comment:** Determine sample size using Ludlum / jls for slf

| S | Type | Sample# | R | A | Test | Matrix | Group# | Project |
|---|---|---|---|---|---|---|---|---|
| 1 | STD | | | | @ALPHA01 | SOLID | | |
| 2 | BLNK-PREP | | | | @ALPHA01 | SOLID | | |
| 3 | SAMPLE | S95T002005 | 0 | F | @ALPHA01 | SOLID | 95000118 | BY-108 (R) |
| | | **Analytes Requested:** ALPHA01 , ALPHA01E | | | | | | |
| 4 | DUP | S95T002005 | 0 | F | @ALPHA01 | SOLID | | |
| 5 | SPK | S95T002005 | 0 | F | @ALPHA01 | SOLID | | |

## Final page for worklist # 2899

Kim Thomas 10-14-95
**Analyst Signature** **Date**

D. H. Milliren 10-16-95
**Analyst Signature** **Date**

*Data Entry Comments:*

*S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WORKBOOK PAGE: STD1

## AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| STD | DETECTOR NUMBER | | 15 | 15 |
| | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| 2899 | GROSS COUNTS | (GC) | 2734 | 2905 |
| | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| @ALPHA01 | DILUTION FACTOR | (DF) | 1 | 1 |
| | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| LIQUID | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 90.913 | 96.613 |
| 95003147 | Standard Value in µCi/mL | | ~~1.60E-05~~ | 1.92E-5 JO 12/19/95 |
| | Concentration in µCi/L | = | 1.72E-02 | |
| 0 | Replicate Concentration in µCi/L | = | 1.83E-02 | |
| | AVERAGE CONCENTRATION in µCi/L | = | 1.7746E-02 | |

N/A

2899

WB26872

DHM

SLF

KNT

10/16/95

10/14/95

03:50 AM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

| | | | | |
|---|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | 1.77E-05 | | DETECTION LEVEL |
| RELATIVE COUNTING ERROR | = | 3.8% | | 9.28E-08 µCi/mL |

| | | | |
|---|---|---|---|
| Analyst: | | DHM | Date: 16-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 14 | 10 |
| 2899 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1672 | 2.1672 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.247 | 0.337 |

| | | |
|---|---|---|
| 95003147 | Blank Concentration in µCi/g | 2.15E-03 |
| | Replicate Concentration in µCi/g | < 2.95E-03 |
| 0 | Maximum Concentration in µCi/g | < 2.9467E-03 |

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

N/A

WB26872

DHM

SLF

KNT

10/16/95

10/14/95

03:50 AM

BY-108

v RESULTS v

| | | | |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 2.95E-03 | DETECTION LEVEL |
| | LESS THAN Value was Determined from | | 4.28E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 234.9% | |

| | | | |
|---|---|---|---|
| Analyst: | | DHM | Date: 16-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM3

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 11 | 16 |
| 2899 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.1672 | 2.1672 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.377 | 0.313 |

| | | | |
|---|---|---|---|
| 95003147 | Blank Concentration in µCi/g | < | 3.30E-03 |
| | Replicate Concentration in µCi/g | | 2.74E-03 |
| 0 | Maximum Concentration in µCi/g | < | 3.2959E-03 |

Sample Prep
FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

S95T002005

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Instrument Code
WB26872

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
DHM

v RESULTS v

| | | | | |
|---|---|---|---|---|
| SLF | ALPHA TOTAL | in µCi/g | < 3.30E-03 | DETECTION LEVEL |
| KNT | | LESS THAN Value was Determined from | | 4.28E-03 µCi/g |
| 10/16/95 | RELATIVE COUNTING ERROR | | 186.9% | |

10/14/95

03:50 AM

BY-108

| | | | |
|---|---|---|---|
| Analyst: | | DHM | Date: 16-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP4

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| | DETECTOR NUMBER | | 15 | 15 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| | GROSS COUNTS | (GC) | 14 | 14 |
| 2899 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| | BACKGROUND in cpm | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE SIZE in mL | (SS) | 0.100 | 0.100 |
| | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.5452 | 2.5452 |
| | EFFICIENCY FACTOR | (EFF) | 0.2380 | 0.2380 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.247 | 0.247 |

| | |
|---|---|
| Blank Concentration in µCi/g | 1.83E-03 |
| Replicate Concentration in µCi/g | 1.83E-03 |
| Average Concentration in µCi/g | 1.8343E-03 |

95003147

0

FUSION01

S95T002005

WB26872

DHM

SLF

KNT

10/16/95

10/14/95

03:50 AM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.83E-03 | |
| | | | 3.65E-03 µCi/g |
| RELATIVE COUNTING ERROR | | 120.2% | |

| | | | |
|---|---|---|---|
| Analyst: | DHM | | Date: 16-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE5 WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | | SPIKE | REPLICATE |
|---|---|---|---|---|---|
| | DETECTOR NUMBER | | | 15 | 15 |
| SPK | DISH SIZE 1, 2, or 5 | | (MS) | 2 | 2 |
| | TOTAL COUNTS | | (TC) | 70051 | 75871 |
| 2899 | COUNT TIME in MINUTES | | (CT) | 30 | 30 |
| | BACKGROUND in cpm | | (BKG) | 0.22 | 0.22 |
| AT | SAMPLE VOLUME in mL | (Spiked Vial) | (SS) | 0.100 | 0.100 |
| | SAMPLE DILUTION FACTOR | (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | | (Dg/L) | 2.1672 | 2.1672 |
| | SPIKE VOLUME in mL | | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | | (SDF) | 1 | 1 |
| | SPIKE BOOK NUMBER | | (Spk BN) | 112B43 | 112B43 |
| 95003147 | SPIKE VALUE in µCi/mL | | (SVal) | 4.4769E-02 | 4.4769E-02 |
| | INSTRUMENT EFFICIENCY FACTOR | | (EFF) | 0.238 | 0.238 |
| 0 | SAMPLE + SPIKE µCi/g | | (S+S) | 2.07E+01 | 2.20E+01 |
| | AVERAGE or MAXIMUM µCi/g in SAMPLE | | < | 3.2959E-03 | |

FUSION01

S95T002005

15

DHM

SLF

KNT

10/16/95

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.

10/16/95

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BY-103

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 4.62E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 103.3% |

| | | | |
|---|---|---|---|
| Analyst: | | DHM | Date: 16-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/16/95 |

SPIKE.WB1 Rev. 1.0 508101ML



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THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

# LABCORE Data Entry Template for Worklist# 2705

KNT

**Analyst:** Kim Thomas **Instrument:** AB00 16 **Book #** 147852

**Method:** LA-508-101 Rev/Mod 0-2 ~~WB27806~~ WB27806

**Worklist Comment:** Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 1 | STD | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| | | 2 | BLNK-PREP | | | | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| | | 3 | BLNK/BKG | | | | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 4 | SAMPLE | S95T002001 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 5 | DUP | S95T002001 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 6 | SPK | S95T002001 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | N/A | | | uCi/g |
| 95000118 | BY-108 (R) | 7 | SAMPLE | S95T002002 | 0 | F | @ALPHA01 ALPHA01E | SOLID | N/A | | | % Ct. Error |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |
| 95000118 | BY-108 (R) | 8 | DUP | S95T002002 | 0 | F | @ALPHA01 ALPHA01E | SOLID | | | N/A | % Ct. Error |
| 95000118 | BY-108 (R) | 9 | SPK | S95T002002 | 0 | F | @ALPHA01 ALPHA01 | SOLID | | | N/A | uCi/g |

## Final page for worklist # 2705

DATA NOT USED IN PACKAGE

*Data Entry Comments:*

STD recovery is out of control limits
batch will be rerun. [illegible] 10/2/95

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

# LABCORE Data Entry Template for Worklist# 2705

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Analyst Signature | | Date | | | | Analyst Signature | | | Date | |
| Kim Thomas | | 10-3-95 | | | | C.J. Opinion | | | 10/5/95 | |

DATA NOT USED IN PACKAGE

*Data Entry Comments:*

*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

WHC-SD-WM-DP-145, REV.1

WORKBOOK PAGE: STD1

# AT : LA-508-101 (D-2) STANDARD

| | | | STANDARD | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 18 | 18 |
| STD | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 4952 | 4890 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 10.000 | 10.000 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | STANDARD BOOK NUMBER | (Std BN) | 147B52 | 147B52 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| LIQUID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 165.037 | 156.303 |
| Batch Number | Standard Value in µCi/mL | | ~~1.00E-05~~ | 1.92E-5 gc |
| 95002905 | Concentration in µCi/L | = | 3.53E-02 | |
| Replicate | Replicate Concentration in µCi/L | = | 3.35E-02 | |
| 0 | AVERAGE CONCENTRATION in µCi/L | = | 3.4398E-02 | |

Sample Prep: N/A

Sample #: WORKLIST2705

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / ( EFF * SS * 2220000dpm/µCi )

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

| | | | | DETECTION LEVEL |
|---|---|---|---|---|
| ALPHA TOTAL CONCENTRATION in µCi/mL | | | 3.44E-05 | 5.10E-08 µCi/mL |
| RELATIVE COUNTING ERROR | = | | 2.9% | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/6/95 |

STANDARD.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE



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WORKBOOK PAGE: BLANK2

# AT : LA-508-101 (D-2) SOLIDS

| | | | BLNK-PREP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| BLNK-PREP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 4 | 3 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.103 | 0.179 |
| Batch Number | | | | |
| 95002905 | Blank Concentration in µCi/g | | 2.14E-04 | |
| Rerun | Replicate Concentration in µCi/g | < | 3.69E-04 | |
| 0 | Maximum Concentration in µCi/g | < | 3.6904E-04 | |

Sample Prep: N/A

Sample #: S95T2001-BLK

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 3.69E-04 | 4.92E-04 µCi/g |
| | LESS THAN Value was Determined from | | |
| RELATIVE COUNTING ERROR | | 184.3% | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/6/95 |

BLANK.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SAM4

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE ( 1, 2, or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 3 | 7 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.179 | 0.203 |

| | | | |
|---|---|---|---|
| Batch Number | | | |
| 95002905 | Blank Concentration in µCi/g | < | 3.69E-04 |
| Rerun | Replicate Concentration in µCi/g | | 4.20E-04 |
| 0 | Maximum Concentration in µCi/g | < | 4.2011E-04 |

Sample Prep: FUSION01

Sample #: S95T002001

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | < 4.20E-04 | |
| | LESS THAN Value was Determined from | | 4.92E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 184.3% | |

| | | | |
|---|---|---|---|
| Analyst: | CJO | | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/9/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP5

## AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work List | GROSS COUNTS | (GC) | 24 | 20 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0744 | 2.0744 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 0.770 | 0.637 |

| | |
|---|---|
| Blank Concentration in µCi/g | 1.59E-03 |
| Replicate Concentration in µCi/g | 1.31E-03 |
| Average Concentration in µCi/g | 1.4518E-03 |

Batch Number: 95002905

Rerun: 0

Sample Prep: FUSION01

Sample #: S95T002001

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 1.45E-03 | 4.92E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 46.9% | |

| | | | |
|---|---|---|---|
| Analyst: | CJO | | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/9/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SPIKE6

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 37552 | 36497 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.0724 | 2.0724 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95002905 | SPIKE VALUE in µCi/mL | (SVal) | 4.4772E-02 | 4.4772E-02 |
| Rerun | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 2.59E+00 | 2.51E+00 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | < | 4.2011E-04 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002001 | | | | |
| Instrument Code | | | | |
| WB27806 | | | | |
| Prepared By | | | | |
| CJO | | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| KNT | | | | |
| Date Complete | | | | |
| 10/05/95 | | | | |
| Analysis Date | | | | |
| 10/03/95 | | | | |
| Analysis Time | | | | |
| 03:15 PM | | | | |
| Sample Point | | | | |
| BY-108 | | | | |

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi )

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100

NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.

| | | |
|---|---|---|
| QC ACTUAL | = | 4.48E-02 |
| QC FOUND | = | 2.64E-02 |
| AVG. PERCENT SPIKE RECOVERY | = | 59.0% |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/9/95 |

SPIKE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SAM7

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | SAMPLE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SAMPLE | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work Unit | GROSS COUNTS | (GC) | 64 | 57 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TB ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.2416 | 2.2416 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.770 | 1.870 |
| Batch Number | | | | |
| 95002905 | Blank Concentration in µCi/g | | 3.38E-03 | |
| Rerun | Replicate Concentration in µCi/g | | 3.57E-03 | |
| 0 | Average Concentration in µCi/g | | 3.4765E-03 | |

Sample Prep: FUSION01

Sample #: S95T002002

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi )

Relative Counting Error = [ |(The Square Root of TC + BKG * CT) / (TC - BKG * CT)| ] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 3.48E-03 | 4.55E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 27.3% | |

| | | | |
|---|---|---|---|
| Analyst: | CJO | | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/9/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE



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WORKBOOK PAGE: DUP8

WHC-SD-WM-DP-145, REV. 1

# AT : LA-508-101 (D-2) SOLIDS

| | | | DUP | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| DUP | DISH SIZE ( 1 , 2 , or 5 ) | (MS) | 2 | 2 |
| Work Unit | GROSS COUNTS | (GC) | 44 | 46 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or TE ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE SIZE in mL | (SS) | 0.500 | 0.500 |
| Test Code | DILUTION FACTOR | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.2436 | 2.2436 |
| Matrix | EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| SOLID | Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE | | 1.437 | 1.503 |

| | |
|---|---|
| Batch Number | |
| 95002905 | Blank Concentration in µCi/g 2.74E-03 |
| Rerun | Replicate Concentration in µCi/g 2.87E-03 |
| 0 | Average Concentration in µCi/g 2.8055E-03 |
| Sample Prep | |
| FUSION01 | Rs (Sample Count Rate) = (TC / CT) - BKG |
| Sample # | ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L * 2220000dpm/µCi ) |
| S95T002002 | |
| Instrument Code | Relative Counting Error = [ \|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)\| ] * 1.96 * 100 |
| WB27806 | Detection Levels and Less Than Values are determined from Procedure LA-508-002. |
| Prepared By | |
| CJO | |
| Chemist | |
| SLF | |
| Analyst | |
| KNT | |
| Date Complete | |
| 10/05/95 | |
| Analysis Date | |
| 10/03/95 | |
| Analysis Time | |
| 03:15 PM | |
| Sample Point | |
| BY-108 | |

v RESULTS v

| | | | DETECTION LEVEL |
|---|---|---|---|
| ALPHA TOTAL | in µCi/g | 2.81E-03 | 4.55E-04 µCi/g |
| RELATIVE COUNTING ERROR | | 30.5% | |

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 05-Oct-95 |
| Signature of Chemist: | [signature] | SLF | Date: 10/9/95 |

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE



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WORKBOOK PAGE: SPIKE9

# AT : LA-508-101 (D-2) SPIKED SAMPLE

| | | | SPIKE | REPLICATE |
|---|---|---|---|---|
| Type | DETECTOR NUMBER | | 16 | 16 |
| SPK | DISH SIZE 1 , 2 , or 5 | (MS) | 2 | 2 |
| Work List | TOTAL COUNTS | (TC) | 47638 | 48268 |
| 2705 | COUNT TIME in MINUTES | (CT) | 30 | 30 |
| AT or IS ? | BACKGROUND in cpm | (BKG) | 0.03 | 0.03 |
| AT | SAMPLE VOLUME in mL (Spiked Vial) | (SS) | 0.500 | 0.500 |
| Test Code | SAMPLE DILUTION FACTOR (Spiked Vial) | (DF) | 1 | 1 |
| @ALPHA01 | DIGEST GRAMS of SOLIDS / L | (Dg/L) | 2.2416 | 2.2416 |
| Matrix | SPIKE VOLUME in mL | (SVol) | 0.100 | 0.100 |
| SOLID | SPIKE DILUTION FACTOR | (SDF) | 1 | 1 |
| Batch Number | SPIKE BOOK NUMBER | (Spk BN) | 112B43 | 112B43 |
| 95002905 | SPIKE VALUE in µCi/mL | (SVal) | 4.4772E-02 | 4.4772E-02 |
| Rerun | INSTRUMENT EFFICIENCY FACTOR | (EFF) | 0.2104 | 0.2104 |
| 0 | SAMPLE + SPIKE µCi/g | (S+S) | 3.03E+00 | 3.07E+00 |
| Sample Prep | AVERAGE or MAXIMUM µCi/g in SAMPLE | | 3.4765E-03 | |
| FUSION01 | | | | |
| Sample # | | | | |
| S95T002002 | Rs (Sample Count Rate) = (TC / CT) - BKG | | | |
| Instrument Code | SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / ( EFF * SS * Dg/L *2220000dpm/µCi ) | | | |
| WB27806 | QC ACTUAL = SVal | | | |
| Prepared By | QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L)))) | | | |
| CJO | PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL ) *100 | | | |
| Chemist | | | | |
| SLF | | | | |
| Analyst | | | | |
| KNT | | | | |
| Date Complete | | | | |
| 10/05/95 | | | | |
| Analysis Date | | | | |
| 10/03/95 | QC ACTUAL | = | 4.48E-02 | |
| Analysis Time | QC FOUND | = | 3.42E-02 | |
| 03:15 PM | AVG. PERCENT SPIKE RECOVERY | = | 76.3% | |
| Sample Point | | | | |
| BY-108 | | | | |

DATA NOT USED IN PACKAGE

| | | | |
|---|---|---|---|
| Analyst: | | CJO | Date: 05-Oct-95 |
| Signature of Chemist: | | SLF | Date: 10/4/95 |

SPIKE.WB1 Rev. 1.0 508101ML

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