



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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To: CARLOS, ALLEN
275 ALSEK RD
WHITEHORSE YT Y1A 4T1

Page: 2 - A
Total # Pages: 3 (A - D)
Finalized Date: 12-NOV-2004
Account: TFI

CERTIFICATE OF ANALYSIS VA04077990

| Sample Description | Method Analyte Units LOR | WEI-21 Recvd Wt. kg 0.02 | Au-AA24 Au ppm 0.005 | ME-MS41 Ag ppm 0.01 | ME-MS41 Al % 0.01 | ME-MS41 As ppm 0.1 | ME-MS41 B ppm 10 | ME-MS41 Ba ppm 10 | ME-MS41 Be ppm 0.05 | ME-MS41 Bi ppm 0.01 | ME-MS41 Ca % 0.01 | ME-MS41 Cd ppm 0.01 | ME-MS41 Ce ppm 0.02 | ME-MS41 Co ppm 0.1 | ME-MS41 Cr ppm 1 | ME-MS41 Cs ppm 0.05 |
|--------------------|-----------------------------------|-----------------------------------|-------------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|----------------------------|------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|-----------------------------|---------------------------|------------------------------|
| B053812 | | 1.88 | <0.005 | 0.05 | 2.42 | 1.3 | <10 | 150 | 1.22 | 0.06 | 4.29 | 0.28 | 55.7 | 29.9 | 92 | 0.27 |
| B053813 | | 1.72 | <0.005 | 0.05 | 2.51 | 1 | <10 | 70 | 0.98 | 0.03 | 2.78 | 0.22 | 64 | 33.6 | 108 | 0.22 |
| B053814 | | 1.70 | <0.005 | 0.04 | 2.98 | 2 | <10 | 120 | 1.21 | 0.02 | 3.77 | 0.35 | 59.7 | 29.7 | 115 | 0.21 |
| B053815 | | 1.46 | <0.005 | 0.03 | 2.71 | 3.5 | <10 | 90 | 1.26 | <0.01 | 3.92 | 0.17 | 51.8 | 30.2 | 113 | 0.09 |
| B053816 | | 1.98 | <0.005 | 0.04 | 3.04 | 2.5 | <10 | 100 | 1.26 | <0.01 | 3.91 | 0.14 | 55.5 | 32 | 112 | 0.08 |
| B053817 | | 1.56 | <0.005 | 0.03 | 2.95 | 1.4 | <10 | 110 | 1.1 | <0.01 | 3.98 | 0.1 | 51.8 | 29.3 | 107 | 0.05 |
| B053818 | | 1.66 | <0.005 | 0.03 | 2.35 | 1.2 | <10 | 80 | 0.86 | <0.01 | 4.15 | 0.09 | 54.3 | 24.4 | 100 | 0.08 |
| B053819 | | 1.40 | <0.005 | 0.04 | 3.04 | 0.6 | <10 | 90 | 1.84 | 0.01 | 3.82 | 0.1 | 60.8 | 27.6 | 86 | 0.83 |
| B053820 | | 1.76 | <0.005 | 0.04 | 2.05 | 0.9 | <10 | 120 | 1.96 | 0.01 | 2.14 | 0.11 | 60.4 | 28.9 | 90 | 0.89 |
| B053821 | MVK 9 | 1.94 | <0.005 | 0.03 | 2.81 | 1.2 | <10 | 160 | 1.26 | <0.01 | 3.64 | 0.08 | 56.3 | 29 | 93 | 1.21 |
| B053822 | | 1.60 | <0.005 | 0.04 | 2.38 | 0.6 | <10 | 170 | 1.19 | 0.01 | 4.97 | 0.13 | 61.4 | 29.8 | 91 | 1.2 |
| B053823 | | 2.10 | <0.005 | 0.03 | 2.72 | 4.5 | <10 | 110 | 0.96 | <0.01 | 3.7 | 0.13 | 58.6 | 31.4 | 111 | 0.13 |
| B053824 | | 1.86 | <0.005 | 0.04 | 2.65 | 8.8 | <10 | 100 | 0.91 | <0.01 | 4.07 | 0.17 | 62.1 | 33.9 | 112 | 0.09 |
| B053825 | | 1.64 | <0.005 | 0.04 | 3.35 | 6.4 | <10 | 140 | 1.32 | <0.01 | 2.53 | 0.13 | 66.8 | 32.9 | 111 | 0.18 |
| B053826 | | 1.54 | <0.005 | 0.52 | 2.59 | 6.5 | <10 | 90 | 0.97 | <0.01 | 2.91 | 0.14 | 60.3 | 32.4 | 93 | 0.24 |
| B053827 | | 1.42 | <0.005 | 0.18 | 2.99 | 5.6 | <10 | 110 | 1.31 | 0.01 | 2.43 | 0.16 | 63.6 | 32.3 | 89 | 0.2 |
| B053828 | | 0.94 | <0.005 | 0.04 | 2.33 | 17.8 | <10 | 80 | 1.08 | 0.02 | 2.18 | 0.48 | 62 | 29.5 | 81 | 0.28 |
| B053829 | | 1.70 | <0.005 | 0.05 | 2.23 | 2 | <10 | 160 | 0.98 | 0.03 | 2.96 | 0.19 | 57.1 | 26.8 | 69 | 0.39 |
| B053830 | | 1.74 | <0.005 | 0.08 | 2.89 | 1.9 | 10 | 120 | 1.34 | 0.07 | 1.17 | 0.29 | 60.1 | 26.2 | 58 | 0.99 |
| B053831 | | 1.26 | <0.005 | 0.07 | 2.13 | 1 | <10 | 100 | 1.23 | 0.07 | 1.31 | 0.27 | 59.5 | 27.2 | 47 | 1 |
| B053832 | | 1.86 | <0.005 | 0.07 | 2.47 | 1.9 | <10 | 120 | 1.01 | 0.06 | 1.26 | 0.23 | 61 | 34.3 | 56 | 0.76 |
| B053833 | | 1.74 | <0.005 | 0.08 | 2.6 | 2.6 | <10 | 130 | 1.37 | 0.09 | 1.22 | 0.28 | 55.8 | 27.4 | 59 | 1.04 |
| B053834 | | 1.88 | <0.005 | 0.04 | 2.2 | 5.8 | <10 | 80 | 0.88 | 0.02 | 2.92 | 0.19 | 66 | 34.5 | 89 | 0.26 |
| B053835 | | 1.88 | <0.005 | 0.04 | 2.16 | 9.1 | <10 | 90 | 1 | 0.03 | 1.86 | 0.13 | 60.4 | 37.4 | 80 | 0.5 |
| B053836 | MVK 5 | 1.54 | <0.005 | 0.04 | 2.54 | 4.2 | <10 | 100 | 0.75 | 0.02 | 3.13 | 0.14 | 56.6 | 36.4 | 83 | 0.46 |
| B053837 | | 1.34 | <0.005 | 0.08 | 2.16 | 4.6 | <10 | 140 | 0.82 | 0.07 | 6.37 | 0.23 | 45.7 | 24.5 | 43 | 0.94 |
| B053838 | | 1.16 | <0.005 | 0.11 | 2.82 | 4.4 | <10 | 150 | 1.4 | 0.08 | 2.34 | 0.26 | 57.8 | 29.6 | 61 | 1.22 |
| B053839 | | 1.34 | <0.005 | 0.03 | 2.61 | 0.8 | <10 | 120 | 0.66 | <0.01 | 4.52 | 0.04 | 55.7 | 31 | 96 | 1.1 |
| B053840 | | 1.68 | <0.005 | 0.03 | 2.7 | 0.5 | <10 | 110 | 0.71 | <0.01 | 4.46 | 0.03 | 55.1 | 28.7 | 93 | 0.95 |
| B053841 | | 1.68 | <0.005 | 0.03 | 2.47 | 0.2 | <10 | 70 | 0.67 | <0.01 | 5.83 | 0.03 | 52.8 | 27.2 | 87 | 0.92 |
| B053842 | | 1.46 | <0.005 | 0.04 | 2.78 | 0.4 | <10 | 90 | 0.83 | <0.01 | 5.39 | 0.03 | 56.6 | 26.5 | 94 | 1.54 |
| B053843 | | 1.70 | <0.005 | 0.02 | 2.63 | 0.5 | <10 | 90 | 0.83 | <0.01 | 5 | 0.04 | 55 | 30.6 | 92 | 1.26 |
| B053844 | | 1.70 | <0.005 | 0.03 | 2.81 | 0.9 | <10 | 110 | 0.94 | <0.01 | 5.08 | 0.04 | 55.2 | 38.4 | 94 | 1.21 |
| B053845 | | 2.24 | <0.005 | 0.03 | 2.31 | 1 | <10 | 80 | 0.7 | <0.01 | 4.22 | 0.05 | 52 | 40.6 | 92 | 0.74 |
| B053846 | MVK 7 | 1.70 | <0.005 | 0.02 | 2.19 | 1 | <10 | 120 | 0.69 | <0.01 | 3.84 | 0.06 | 49.6 | 33.2 | 88 | 0.08 |
| B053847 | | 1.48 | <0.005 | 0.03 | 2.19 | 1.1 | <10 | 100 | 0.72 | <0.01 | 2.7 | 0.06 | 49.9 | 30.5 | 92 | 0.09 |
| B053848 | | 1.62 | <0.005 | 0.03 | 1.96 | 1.4 | <10 | 90 | 0.58 | <0.01 | 2.8 | 0.09 | 50.9 | 30.6 | 93 | 0.1 |
| B053849 | | 1.70 | <0.005 | 0.03 | 2.14 | 1.5 | <10 | 110 | 0.66 | <0.01 | 3.39 | 0.06 | 50.7 | 31.6 | 91 | 0.07 |
| B053850 | | 1.68 | <0.005 | 0.04 | 2.39 | 1.5 | <10 | 100 | 0.92 | <0.01 | 3.68 | 0.08 | 57.1 | 31.2 | 86 | 0.24 |
| B053851 | | 1.50 | <0.005 | 0.04 | 1.92 | 3.7 | <10 | 110 | 0.45 | 0.04 | 4.23 | 0.09 | 50.4 | 33.4 | 86 | 0.12 |



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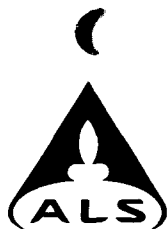
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|--------------------|-----------------------------------|------------|-----------|-------------|-------------|-------------|-------------|--------------|-----------|------------|------------|-----------|----------|-------------|-----------|-------------|
| | | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| | | ppm 0.2 | % 0.01 | ppm 0.05 | ppm 0.05 | ppm 0.02 | ppm 0.01 | ppm 0.005 | % 0.01 | ppm 0.2 | ppm 0.1 | % 0.01 | ppm 5 | ppm 0.05 | % 0.01 | ppm 0.05 |
| B053812 | | 31.9 | 6.97 | 7.79 | 0.13 | 0.11 | 0.05 | 0.052 | 0.12 | 27.5 | 9.6 | 2.2 | 1870 | 2.82 | 0.38 | 0.07 |
| B053813 | | 42.7 | 7.33 | 8.77 | 0.17 | 0.3 | 0.05 | 0.061 | 0.11 | 27.9 | 12.6 | 1.92 | 1055 | 0.85 | 0.26 | 0.14 |
| B053814 | | 39 | 6.83 | 9.73 | 0.13 | 0.19 | 0.05 | 0.059 | 0.15 | 28.4 | 10.9 | 1.86 | 1200 | 0.9 | 0.32 | 0.12 |
| B053815 | | 35.9 | 8.01 | 10.05 | 0.15 | 0.18 | 0.05 | 0.063 | 0.08 | 29.7 | 10.9 | 2.18 | 1455 | 3.2 | 0.21 | 0.1 |
| B053816 | | 36.8 | 8.2 | 10.95 | 0.14 | 0.27 | 0.05 | 0.058 | 0.11 | 29.9 | 9.3 | 2.18 | 1495 | 3.52 | 0.34 | 0.17 |
| B053817 | | 40.1 | 7.09 | 10.6 | 0.13 | 0.33 | 0.03 | 0.054 | 0.11 | 25.9 | 9.6 | 1.86 | 1310 | 1.59 | 0.34 | 0.21 |
| B053818 | | 33.4 | 5.47 | 8.75 | 0.11 | 0.33 | 0.02 | 0.049 | 0.06 | 25.1 | 8.1 | 1.58 | 1160 | 0.8 | 0.25 | 0.21 |
| B053819 | | 31.4 | 6.32 | 9.63 | 0.13 | 0.38 | 0.02 | 0.054 | 0.07 | 30.1 | 10.2 | 1.9 | 1245 | 0.79 | 0.63 | 0.28 |
| B053820 | MVK 9 | 35.3 | 6.46 | 7.2 | 0.12 | 0.07 | 0.01 | 0.045 | 0.09 | 29.4 | 7.9 | 1.93 | 1090 | 0.68 | 0.59 | 0.33 |
| B053821 | | 31.3 | 7.16 | 8.59 | 0.11 | 0.3 | 0.01 | 0.049 | 0.08 | 28.4 | 4.7 | 2.44 | 1380 | 1.35 | 0.7 | 0.14 |
| B053822 | | 37.1 | 6.44 | 8.11 | 0.15 | 0.19 | 0.01 | 0.059 | 0.06 | 28.7 | 6.5 | 2.1 | 1525 | 0.54 | 0.61 | 0.12 |
| B053823 | | 41.8 | 7.32 | 9.61 | 0.14 | 0.17 | 0.02 | 0.044 | 0.09 | 25.7 | 8.7 | 2.37 | 1380 | 4.13 | 0.29 | 0.08 |
| B053824 | | 47.8 | 7.25 | 9.24 | 0.15 | 0.21 | 0.03 | 0.047 | 0.1 | 27.2 | 10 | 2.41 | 1440 | 6.76 | 0.23 | 0.08 |
| B053825 | | 53.1 | 7.07 | 10.4 | 0.15 | 0.31 | 0.04 | 0.055 | 0.18 | 30.7 | 11.6 | 2.31 | 960 | 6.16 | 0.39 | 0.1 |
| B053826 | | 40.7 | 6.81 | 8.39 | 0.14 | 0.26 | 0.02 | 0.051 | 0.1 | 27.5 | 10.9 | 2.42 | 1410 | 4.91 | 0.35 | 0.07 |
| B053827 | | 38 | 7.43 | 9.18 | 0.14 | 0.22 | 0.02 | 0.058 | 0.16 | 32.6 | 9.5 | 2.54 | 1685 | 6.59 | 0.49 | 0.07 |
| B053828 | | 33.6 | 7.03 | 8.39 | 0.13 | 0.3 | 0.06 | 0.059 | 0.11 | 33.7 | 9.7 | 2.04 | 1310 | 55.6 | 0.38 | 0.09 |
| B053829 | | 26.9 | 6.73 | 6.94 | 0.12 | 0.21 | 0.01 | 0.045 | 0.1 | 25.9 | 10.2 | 2.36 | 1435 | 5.95 | 0.44 | 0.05 |
| B053830 | | 32.8 | 6.05 | 7.95 | 0.13 | 0.22 | 0.04 | 0.053 | 0.31 | 25 | 9 | 1.68 | 1120 | 0.49 | 0.66 | 0.05 |
| B053831 | | 35.7 | 5.71 | 6.58 | 0.14 | 0.24 | 0.03 | 0.055 | 0.2 | 26.1 | 8.4 | 1.61 | 1115 | 0.5 | 0.61 | 0.05 |
| B053832 | | 36.1 | 6.16 | 7.5 | 0.15 | 0.21 | 0.04 | 0.053 | 0.22 | 25.9 | 7.3 | 1.77 | 1220 | 0.51 | 0.6 | 0.05 |
| B053833 | | 35.1 | 5.95 | 7.36 | 0.14 | 0.21 | 0.07 | 0.05 | 0.29 | 25 | 7.8 | 1.62 | 1145 | 0.52 | 0.58 | <0.05 |
| B053834 | | 39.8 | 5.85 | 7.52 | 0.14 | 0.18 | 0.1 | 0.058 | 0.09 | 29.7 | 8.1 | 2.1 | 1260 | 4.66 | 0.53 | 0.06 |
| B053835 | MVK 5 | 41.5 | 6.36 | 7.63 | 0.14 | 0.25 | 0.12 | 0.055 | 0.12 | 28.1 | 7.6 | 2.11 | 1020 | 2.58 | 0.5 | 0.06 |
| B053836 | | 37.5 | 6.87 | 8.25 | 0.16 | 0.2 | 0.05 | 0.056 | 0.12 | 26.7 | 8.1 | 2.22 | 1465 | 4.95 | 0.5 | 0.08 |
| B053837 | | 29 | 5.37 | 6.54 | 0.11 | 0.23 | 0.04 | 0.045 | 0.16 | 22.5 | 11.5 | 1.5 | 1350 | 3.02 | 0.5 | 0.05 |
| B053838 | | 34.9 | 5.36 | 8.13 | 0.13 | 0.21 | 0.03 | 0.057 | 0.21 | 25 | 13.2 | 1.69 | 1170 | 3.41 | 0.7 | 0.05 |
| B053839 | | 32.9 | 7.05 | 9.7 | 0.21 | 0.08 | 0.02 | 0.036 | 0.03 | 27 | 6.3 | 2.18 | 1595 | 0.59 | 0.28 | 0.13 |
| B053840 | | 31.9 | 7.12 | 10.1 | 0.18 | 0.11 | 0.03 | 0.035 | 0.05 | 24.8 | 7.4 | 2.1 | 1615 | 0.61 | 0.29 | 0.1 |
| B053841 | | 31.5 | 7.1 | 9.74 | 0.16 | 0.09 | 0.02 | 0.034 | 0.03 | 26.8 | 7 | 2.13 | 1830 | 0.68 | 0.26 | 0.1 |
| B053842 | | 38.5 | 6.72 | 10.65 | 0.16 | 0.11 | 0.04 | 0.038 | 0.04 | 28.5 | 7.5 | 2.21 | 1745 | 0.82 | 0.43 | 0.07 |
| B053843 | | 29.4 | 7.25 | 10.4 | 0.19 | 0.08 | 0.02 | 0.042 | 0.03 | 27 | 7.5 | 2.47 | 1920 | 0.74 | 0.38 | 0.07 |
| B053844 | | 32.8 | 6.91 | 10.35 | 0.16 | 0.12 | 0.02 | 0.047 | 0.06 | 28 | 9 | 2.29 | 1775 | 1.24 | 0.44 | 0.07 |
| B053845 | MVK 7 | 32.8 | 7.09 | 9.95 | 0.15 | 0.08 | 0.02 | 0.047 | 0.04 | 28 | 8 | 2.37 | 1775 | 1.19 | 0.26 | 0.06 |
| B053846 | | 30.8 | 8.03 | 9.38 | 0.15 | 0.14 | 0.03 | 0.048 | 0.1 | 25.6 | 7.9 | 2.45 | 2260 | 0.97 | 0.14 | 0.08 |
| B053847 | | 33.6 | 7.85 | 9.4 | 0.16 | 0.14 | 0.03 | 0.054 | 0.09 | 26.5 | 8.5 | 2.38 | 1990 | 0.86 | 0.16 | 0.08 |
| B053848 | | 31.4 | 7.21 | 8.54 | 0.16 | 0.1 | 0.03 | 0.05 | 0.07 | 26.1 | 7.4 | 2.17 | 1770 | 0.9 | 0.14 | 0.07 |
| B053849 | | 33.1 | 7.42 | 8.59 | 0.17 | 0.14 | 0.02 | 0.053 | 0.11 | 26.9 | 7.6 | 2.17 | 1925 | 1.06 | 0.2 | 0.08 |
| B053850 | | 33.6 | 7.01 | 8.46 | 0.14 | 0.21 | 0.02 | 0.054 | 0.13 | 24.4 | 7 | 2.03 | 1730 | 0.96 | 0.16 | 0.07 |
| B053851 | | 48.1 | 5.94 | 7.63 | 0.14 | 0.18 | 0.04 | 0.052 | 0.13 | 25.2 | 4.8 | 1.5 | 1585 | 2.75 | 0.26 | 0.12 |



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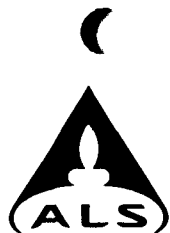
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|--------------------|-----------------------------------|------------|-----------|------------|------------|--------------|-----------|-------------|------------|------------|------------|------------|-------------|-------------|------------|------------|
| | | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm 0.2 | ppm 10 | ppm 0.2 | ppm 0.1 | ppm 0.001 | % 0.01 | ppm 0.05 | ppm 0.1 | ppm 0.2 | ppm 0.2 | ppm 0.2 | ppm 0.01 | ppm 0.01 | ppm 0.2 | % 0.005 |
| B053812 | | 61.6 | 2930 | 7.3 | 6.4 | <0.001 | 0.05 | 0.15 | 10.8 | 0.6 | 1.2 | 211 | <0.01 | <0.01 | 4.2 | 0.016 |
| B053813 | | 72.3 | 2850 | 3.3 | 6.5 | <0.001 | 0.06 | 0.12 | 12 | 0.6 | 1.4 | 123 | <0.01 | <0.01 | 4.5 | 0.042 |
| B053814 | | 61.5 | 3210 | 2.3 | 5.9 | <0.001 | 0.07 | 0.15 | 10.8 | 0.7 | 1.6 | 190.5 | <0.01 | <0.01 | 3.8 | 0.049 |
| B053815 | | 70.9 | 2870 | 1 | 2.7 | 0.002 | 0.33 | 0.13 | 10 | 0.8 | 1.2 | 155.5 | <0.01 | <0.01 | 3.5 | 0.031 |
| B053816 | | 77.8 | 2820 | 1.2 | 3.3 | 0.001 | 0.33 | 0.14 | 11.2 | 0.6 | 1.3 | 185 | 0.01 | <0.01 | 3.5 | 0.091 |
| B053817 | | 70 | 2700 | 1.3 | 2.6 | <0.001 | 0.13 | 0.09 | 11.4 | 0.6 | 1.4 | 203 | <0.01 | <0.01 | 3.5 | 0.172 |
| B053818 | | 52.9 | 2620 | 0.7 | 1.4 | <0.001 | 0.09 | 0.08 | 10 | 0.5 | 1.3 | 193.5 | <0.01 | <0.01 | 3.4 | 0.17 |
| B053819 | | 56.4 | 2760 | 0.9 | 2.6 | <0.001 | 0.06 | 0.05 | 10.6 | 0.5 | 1.3 | 247 | <0.01 | <0.01 | 3.4 | 0.18 |
| B053820 | MVK 9 | 58.8 | 2920 | 0.9 | 4.8 | <0.001 | 0.04 | 0.06 | 8.4 | 0.5 | 1.2 | 140 | 0.01 | <0.01 | 2.9 | 0.172 |
| B053821 | | 55.3 | 2810 | 1.1 | 2.8 | 0.001 | 0.1 | 0.06 | 7.6 | 0.5 | 1.3 | 238 | 0.01 | <0.01 | 2.5 | 0.048 |
| B053822 | | 63.5 | 2730 | 0.8 | 2.6 | <0.001 | 0.09 | <0.05 | 10.2 | 0.6 | 1.1 | 223 | <0.01 | <0.01 | 3.2 | 0.029 |
| B053823 | | 68 | 3050 | 0.8 | 2.6 | 0.001 | 0.33 | 0.11 | 7.9 | 1.6 | 1.2 | 172.5 | <0.01 | <0.01 | 3.5 | 0.026 |
| B053824 | | 64.6 | 2950 | 1.2 | 4.3 | 0.001 | 0.46 | 0.16 | 10.1 | 3.9 | 1.2 | 180.5 | <0.01 | <0.01 | 3.7 | 0.03 |
| B053825 | | 66.8 | 3150 | 1.5 | 8.7 | 0.001 | 0.4 | 0.15 | 11.2 | 3.8 | 1.4 | 208 | <0.01 | <0.01 | 4.4 | 0.049 |
| B053826 | | 67.2 | 2650 | 1.3 | 5.5 | 0.001 | 0.36 | 0.12 | 9.2 | 2 | 1.2 | 180.5 | <0.01 | <0.01 | 4.2 | 0.02 |
| B053827 | | 65.2 | 2910 | 1.9 | 8.1 | 0.002 | 0.58 | 0.1 | 9.6 | 1.4 | 1.3 | 214 | <0.01 | <0.01 | 4.3 | 0.017 |
| B053828 | | 74.4 | 2920 | 2.5 | 5.7 | 0.012 | 1.26 | 0.33 | 8 | 2.7 | 1.3 | 187.5 | <0.01 | <0.01 | 4.1 | 0.01 |
| B053829 | | 58.3 | 2620 | 2.3 | 6.2 | 0.001 | 0.25 | 0.08 | 8.3 | 0.6 | 1.1 | 183 | 0.01 | <0.01 | 3.9 | 0.007 |
| B053830 | | 51.8 | 1510 | 4.5 | 19.4 | <0.001 | 0.03 | 0.09 | 10 | 0.6 | 1.4 | 151 | 0.01 | 0.01 | 5.5 | 0.014 |
| B053831 | | 50.7 | 1770 | 3.4 | 13.6 | <0.001 | 0.03 | 0.07 | 9.2 | 0.5 | 1.3 | 134.5 | 0.01 | <0.01 | 5.2 | 0.009 |
| B053832 | | 59.8 | 2010 | 3.7 | 14.2 | <0.001 | 0.03 | 0.07 | 9.3 | 0.6 | 1.3 | 134 | 0.01 | <0.01 | 4.9 | 0.013 |
| B053833 | | 52.4 | 1420 | 4.4 | 19.2 | <0.001 | 0.03 | 0.07 | 9.5 | 0.6 | 1.3 | 129 | <0.01 | 0.01 | 5.5 | 0.013 |
| B053834 | MVK 5 | 74.8 | 3190 | 2.8 | 5.1 | 0.001 | 0.21 | 0.13 | 8.9 | 0.8 | 1.3 | 160 | 0.01 | <0.01 | 4.7 | 0.009 |
| B053835 | | 81.3 | 2580 | 2.9 | 8.5 | 0.001 | 0.35 | 0.14 | 9.1 | 0.8 | 1.2 | 138.5 | 0.01 | 0.01 | 4.7 | 0.008 |
| B053836 | | 72.7 | 2750 | 2.7 | 6.4 | <0.001 | 0.13 | 0.14 | 9 | 0.6 | 1.4 | 197 | 0.01 | <0.01 | 4.7 | 0.012 |
| B053837 | | 50.1 | 1560 | 5.9 | 11 | 0.001 | 0.09 | 0.18 | 7.5 | 0.6 | 1.1 | 304 | <0.01 | <0.01 | 4.8 | 0.008 |
| B053838 | | 57.3 | 1900 | 6.2 | 13.6 | 0.001 | 0.1 | 0.2 | 9.6 | 0.7 | 1.5 | 181.5 | 0.01 | <0.01 | 5.7 | 0.01 |
| B053839 | | 58.3 | 2610 | 0.8 | 0.8 | <0.001 | 0.01 | <0.05 | 6.2 | 0.5 | 1.2 | 227 | 0.01 | <0.01 | 3.5 | 0.023 |
| B053840 | | 55.7 | 2460 | 0.8 | 1.2 | <0.001 | 0.02 | <0.05 | 6.3 | 0.4 | 1 | 282 | 0.01 | <0.01 | 3.6 | 0.025 |
| B053841 | | 59.4 | 2370 | 0.5 | 0.6 | <0.001 | 0.02 | <0.05 | 6.7 | 0.5 | 0.9 | 356 | 0.01 | <0.01 | 3.4 | 0.025 |
| B053842 | | 57.5 | 2540 | 0.7 | 0.9 | <0.001 | 0.02 | <0.05 | 6.6 | 0.5 | 0.9 | 284 | <0.01 | <0.01 | 3.6 | 0.033 |
| B053843 | | 92.6 | 2570 | 0.6 | 0.7 | <0.001 | 0.03 | <0.05 | 7.2 | 0.4 | 1 | 207 | <0.01 | <0.01 | 3.9 | 0.011 |
| B053844 | | 113 | 2580 | 0.9 | 1.2 | <0.001 | 0.06 | <0.05 | 7.1 | 0.6 | 1.2 | 284 | <0.01 | <0.01 | 3.9 | 0.019 |
| B053845 | MVK 7 | 115.5 | 2570 | 0.9 | 0.8 | <0.001 | 0.05 | <0.05 | 6.4 | 0.6 | 1.1 | 227 | <0.01 | <0.01 | 3.8 | 0.012 |
| B053846 | | 81.2 | 2430 | 1 | 1.9 | <0.001 | 0.08 | <0.05 | 6.9 | 1.1 | 1.1 | 174.5 | <0.01 | <0.01 | 3.5 | 0.021 |
| B053847 | | 67.6 | 2150 | 1 | 1.7 | <0.001 | 0.06 | <0.05 | 7.3 | 0.9 | 1.2 | 131.5 | <0.01 | <0.01 | 3.7 | 0.019 |
| B053848 | | 63.4 | 2440 | 1 | 1.4 | <0.001 | 0.08 | 0.05 | 6.4 | 1 | 1.1 | 113.5 | <0.01 | <0.01 | 3.9 | 0.013 |
| B053849 | | 64 | 2460 | 1.1 | 2.1 | <0.001 | 0.08 | 0.05 | 6.9 | 0.9 | 1.2 | 155.5 | <0.01 | <0.01 | 3.8 | 0.023 |
| B053850 | | 61.4 | 2450 | 1.3 | 6 | <0.001 | 0.08 | 0.05 | 8.4 | 1.7 | 1.2 | 170 | <0.01 | <0.01 | 4 | 0.017 |
| B053851 | | 62.8 | 2350 | 1.6 | 3.6 | <0.001 | 0.37 | 0.1 | 6.6 | 5 | 1.3 | 191.5 | <0.01 | <0.01 | 3.6 | 0.027 |



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| Sample Description | Method Analyte Units LOR | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-XRF10 |
|--------------------|-----------------------------------|-------------|-------------|----------|-------------|-------------|----------|------------|-----------|
| | | Ti | U | V | W | Y | Zn | Zr | W |
| | | ppm 0.02 | ppm 0.05 | ppm 1 | ppm 0.05 | ppm 0.05 | ppm 2 | ppm 0.5 | % 0.01 |
| B053812 | | 0.08 | 1.07 | 105 | <0.05 | 18.45 | 62 | 3.4 | |
| B053813 | | 0.07 | 0.7 | 124 | <0.05 | 18.05 | 79 | 6.6 | |
| B053814 | | 0.06 | 0.85 | 133 | <0.05 | 18.15 | 63 | 5.7 | |
| B053815 | | 0.07 | 0.71 | 144 | <0.05 | 16.25 | 68 | 5.4 | |
| B053816 | | 0.05 | 0.67 | 143 | <0.05 | 17.95 | 76 | 8.2 | |
| B053817 | | 0.03 | 0.66 | 152 | <0.05 | 15.5 | 66 | 9.4 | |
| B053818 | | 0.04 | 0.51 | 131 | 0.05 | 15.55 | 56 | 8 | |
| B053819 | | 0.02 | 0.58 | 118 | <0.05 | 16.95 | 73 | 10.4 | |
| B053820 | | <0.02 | 0.56 | 120 | <0.05 | 17.1 | 83 | 4.3 | |
| B053821 | MVK 9 | <0.02 | 0.58 | 137 | <0.05 | 17.5 | 61 | 6.5 | |
| B053822 | | 0.02 | 0.45 | 127 | <0.05 | 18.2 | 48 | 5.4 | |
| B053823 | | 0.04 | 1.14 | 223 | <0.05 | 16.8 | 65 | 4.8 | |
| B053824 | | 0.03 | 1.07 | 218 | <0.05 | 18.4 | 69 | 4.7 | |
| B053825 | | 0.03 | 1.23 | 224 | <0.05 | 20.2 | 76 | 7 | |
| B053826 | | 0.03 | 1.16 | 162 | 0.13 | 17.3 | 80 | 5.5 | |
| B053827 | | 0.04 | 1.12 | 162 | 0.07 | 19.45 | 79 | 4.9 | |
| B053828 | | 0.22 | 1.88 | 141 | <0.05 | 18.25 | 66 | 6 | |
| B053829 | | 0.03 | 0.97 | 103 | <0.05 | 17.8 | 70 | 4 | |
| B053830 | | 0.05 | 0.67 | 77 | <0.05 | 19.55 | 80 | 4.5 | |
| B053831 | | <0.02 | 0.6 | 67 | <0.05 | 20.5 | 81 | 4.7 | |
| B053832 | | 0.04 | 0.66 | 83 | <0.05 | 20.7 | 93 | 4.1 | |
| B053833 | | 0.05 | 0.94 | 87 | <0.05 | 17.7 | 82 | 4.3 | |
| B053834 | MVK 5 | 0.03 | 1.37 | 116 | <0.05 | 21.6 | 75 | 4.3 | |
| B053835 | | 0.05 | 1.67 | 109 | <0.05 | 19.05 | 82 | 5 | |
| B053836 | | 0.03 | 1.4 | 112 | <0.05 | 18.55 | 70 | 5.6 | |
| B053837 | | 0.05 | 0.68 | 65 | <0.05 | 15.3 | 77 | 4.5 | |
| B053838 | | 0.05 | 0.88 | 89 | <0.05 | 18.6 | 87 | 4.4 | |
| B053839 | | <0.02 | 0.6 | 122 | <0.05 | 16.05 | 68 | 2.4 | |
| B053840 | | <0.02 | 0.7 | 116 | <0.05 | 15.75 | 61 | 4.1 | |
| B053841 | | <0.02 | 0.71 | 113 | <0.05 | 16 | 66 | 2.9 | |
| B053842 | | <0.02 | 0.8 | 116 | <0.05 | 16.55 | 73 | 3.9 | |
| B053843 | | <0.02 | 0.93 | 122 | <0.05 | 15.8 | 59 | 2.5 | |
| B053844 | | <0.02 | 0.95 | 122 | <0.05 | 15.45 | 62 | 4 | |
| B053845 | MVK 7 | <0.02 | 0.93 | 121 | <0.05 | 14.5 | 56 | 3 | |
| B053846 | | <0.02 | 0.9 | 125 | <0.05 | 14.15 | 55 | 5.1 | |
| B053847 | | <0.02 | 0.71 | 127 | <0.05 | 13.8 | 58 | 5.6 | |
| B053848 | | <0.02 | 0.71 | 129 | <0.05 | 14.2 | 50 | 3.7 | |
| B053849 | | <0.02 | 0.76 | 129 | <0.05 | 14.65 | 52 | 5.4 | |
| B053850 | | <0.02 | 1 | 136 | <0.05 | 16.5 | 73 | 4.7 | |
| B053851 | | <0.02 | 0.92 | 171 | <0.05 | 14.6 | 55 | 6.7 | |