Data S1. Element analyses of chrome-spinel grains from the Cambrian (Sweden), Jurassic (Italy and Spain) and Late Cretaceous (Italy) periods.

1. Division of grains in different groups

Chrome spinel grains are categorized as follows:

- **EC** – Grains from equilibrated ordinary chondrites (petrological types 4-6) with oxide weight percentages within the ranges of Cr$_2$O$_3$: ~53.0-62.0, FeO: ~23.0-32.0, Al$_2$O$_3$: ~4.5-8.5, MgO: ~1.3-4.5, V$_2$O$_3$: ~0.55-0.95, TiO$_2$: ~1.40-4.50 (for more extensive discussions, see, Schmitz, 2013, p. 127). Small deviations from these values in one or two oxides are marked with red color in the table. The FeO values of EC grains can sometimes be lower than 23% because of replacement by MnO and/or ZnO (see, Schmitz et al., 2001). All grains with typical EC composition, but with TiO$_2$ ≤ 1.10 are classified as OtC-V grains. These grains may derive from unequilibrated ordinary chondrites.

- **Outlier EC** – Grains that significantly deviate in MgO, but still can be considered an EC grain are put within Outlier EC categories. These grains may have suffered some diagenetic alteration, but generally V$_2$O$_3$ and TiO$_2$ appear not to have been affected. We divide these grains further into two categories:
  
  o MgO-depleted grains – Low content of MgO (<1.0 wt%) and usually accompanied by an elevated ZnO content. EC-like grains with <0.5 wt% MgO are classified as OtC-V grains.
  
  o MgO-enriched grains – High content of MgO >6.0 wt% and usually low (<24%) values of MnO+FeO+ZnO. EC-like grains with MgO >9.0 wt% are classified as OtC-V grains.

- **OtC-V** – Other chrome spinel, i.e. grains that do not have the typical equilibrated ordinary chondritic composition, but contain ≥0.45 wt% V$_2$O$_3$ and a Cr$_2$O$_3$/FeO ratio ≥1.45, indicating a likely meteoritic origin.

- **OtC** – Other chrome-spinel grains, but with V$_2$O$_3$ <0.45 wt% or ≥0.45 wt% V$_2$O$_3$ together with a Cr$_2$O$_3$/FeO ratio <1.45. The OtC grains are likely of terrestrial origin.

The OtC and OtC-V grains are the same as the OC and OC-V grains in our previous papers. The acronyms have been changed in order to avoid confusion with the use of the acronym OC for "ordinary chondrite" in other research. The classification system used here has evolved over time. In single cases in earlier work grains that are at the "border" between two of our present categories may have been put in a different category than in the system applied here. These cases are so rare, however, that they have no bearing on any of the conclusions reached at in the present study.

All analyses are carried out on polished grains. n.d. = not detected.

In the table total weight percentages below ~97 wt% are marked as red.
2. Results

2.1 Andrarum Quarry (Upper Middle Cambrian)

Samples were collected from the ca 1 meter thick Andrarum limestone bed belonging to the Guzhangian Global Stage.

2.1.1 Andrarum limestone results

Andrarum limestone (Andrarum), mounts 302-306, 321-324, 459, weight 132 kg.

EC >63 µm

|       | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|-------|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1     | 3.57| 6.79  | 2.01 | 0.68 | 60.22 | 0.94| 26.33| 0.42| 100.95|
| 2     | 3.07| 6.46  | 2.32 | 0.70 | 59.02 | 1.00| 27.93| 0.44| 100.95|
| 3     | 2.72| 6.05  | 1.85 | 0.67 | 60.37 | 1.23| 27.50| 0.66| 101.05|
| 4     | 2.96| 5.57  | 2.13 | 0.70 | 59.67 | 1.37| 27.67| n.d.| 100.07|

OtC-V >63 µm

|       | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|-------|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1     | 5.08| 10.47 | 0.71 | 0.66 | 55.12 | 0.50| 27.16| n.d.| 99.69 |
| 2     | 5.27| 12.1  | 0.67 | 0.57 | 54.16 | n.d.| 26.26| n.d.| 99.03 |

OtC >63 µm

|       | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|-------|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1     | 15.76| 43.41 | n.d. | n.d. | 25.44 | n.d.| 14.92| n.d.| 99.53 |
| 2     | 12.26| 24.57 | n.d. | 0.34 | 46.27 | n.d.| 16.71| n.d.| 100.15|
| 3     | 7.59 | 13.92 | 0.30 | n.d. | 52.28 | 0.60| 25.24| n.d.| 99.92 |
| 4     | 7.59 | 15.90 | n.d. | 0.30 | 51.38 | n.d.| 25.82| 0.34| 101.33|
| 5     | 12.19| 19.76 | n.d. | 0.26 | 43.68 | n.d.| 23.76| n.d.| 100.64|
| 6     | 3.31 | 7.76  | 0.34 | n.d. | 59.25 | 1.20| 25.11| 1.94| 98.93 |
| 7     | 12.29| 24.80 | 0.40 | 0.25 | 39.39 | n.d.| 21.68| n.d.| 98.80 |

EC 32-63 µm

|       | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|-------|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1     | 2.92 | 6.21  | 1.83 | 0.78 | 60.57 | 1.11| 27.63| 0.66| 101.70|
| 2     | 1.55 | 4.68  | 1.43 | 0.75 | 61.30 | 1.40| 27.72| 1.61| 100.45|
| 3     | 3.70 | 7.43  | 2.04 | 0.77 | 58.55 | 1.08| 26.99| 0.59| 101.16|
| 4     | 3.73 | 5.77  | 4.11 | 0.74 | 55.91 | 0.63| 28.87| 0.30| 100.08|
| 5     | 4.56 | 7.20  | 1.36 | 0.78 | 60.41 | 0.89| 25.26| 0.42| 100.88|
| 6     | 3.21 | 6.63  | 2.17 | 0.69 | 60.64 | 1.00| 26.87| 0.52| 101.73|
|   |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 7 | 3.34| 6.49| 1.66| 0.79| 59.37| 1.08| 26.40| 0.63| 99.78|
| 8 | 4.06| 6.53| 2.29| 0.74| 58.50| 1.03| 25.76| n.d.| 98.91|
| 9 | 2.89| 5.39| 3.56| 0.71| 57.04| 0.70| 28.90| n.d.| 99.19|
| 10| 3.03| 5.47| 3.24| 0.69| 57.45| 0.78| 29.12| n.d.| 99.77|
| 11| 3.78| 6.04| 1.68| 0.75| 58.93| 1.36| 26.66| 0.68| 99.87|
| 12| 4.64| 6.68| 1.99| 0.81| 59.84| 1.21| 25.34| 0.38| 100.89|
| 13| 3.23| 6.55| 2.33| 0.65| 58.95| 0.93| 27.52| 0.50| 100.66|
| 14| 4.17| 6.86| 2.32| 0.63| 59.89| 0.98| 26.09| 0.60| 101.53|
| 15| 3.32| 6.74| 2.29| 0.69| 59.55| 0.96| 27.03| n.d.| 100.57|
| 16| 3.76| 5.86| 3.26| 0.73| 57.46| 0.84| 27.94| n.d.| 99.85|
| 17| 3.18| 6.47| 2.24| 0.82| 59.02| 1.05| 27.64| 0.56| 101.15|
| 18| 3.72| 6.73| 2.32| 0.73| 59.14| 1.04| 26.77| 0.46| 100.90|
| 19| 4.81| 5.63| 1.72| 0.85| 60.71| 1.19| 24.66| 0.66| 100.23|
| 20| 3.58| 6.48| 1.97| 0.70| 59.54| 1.18| 26.14| 0.51| 100.08|
| 21| 2.93| 7.16| 2.01| 0.84| 59.28| 1.01| 27.19| n.d.| 100.41|
| 22| 1.95| 5.54| 3.34| 0.74| 58.56| 0.90| 30.02| n.d.| 101.05|
| 23| 3.17| 6.18| 2.24| 0.71| 60.10| 1.17| 26.97| 0.49| 101.04|
| 24| 3.16| 5.81| 1.74| 0.66| 60.72| 1.21| 26.46| 0.41| 100.17|
| 25| 3.42| 6.44| 1.15| 0.59| 58.70| 1.24| 27.98| 0.50| 100.01|
| 26| 5.46| 6.98| 1.96| 0.75| 59.25| 0.86| 24.70| 0.45| 100.40|
| 27| 1.24| 5.60| 2.25| 0.81| 58.66| 0.65| 28.24| 3.52| 100.96|
| 28| 5.35| 6.35| 2.36| 0.80| 59.03| 0.65| 25.96| 0.47| 100.98|
| 29| 5.83| 6.42| 2.08| 0.78| 59.52| 0.93| 23.55| n.d.| 99.12|
| 30| 2.37| 8.66| 3.22| 0.59| 54.33| 0.75| 29.27| n.d.| 99.19|
| 31| 2.02| 4.70| 3.17| 0.68| 58.17| 0.81| 29.11| 0.76| 99.44|
| 32| 2.65| 5.43| 4.15| 0.72| 56.63| n.d.| 29.87| 0.37| 99.83|
| 33| 1.67| 5.44| 3.59| 0.78| 54.33| 0.79| 32.07| 0.57| 99.24|
| 34| 2.33| 6.22| 2.36| 0.76| 58.32| 0.82| 29.45| n.d.| 100.26|
| 35| 3.01| 6.41| 2.41| 0.74| 57.31| 0.90| 29.20| 0.52| 100.49|
| 36| 2.53| 6.62| 2.44| 0.82| 57.94| 0.83| 29.16| 0.56| 100.89|
| 37| 1.94| 8.37| 5.12| 0.63| 51.37| 0.73| 30.70| 0.43| 99.29|
| 38| 3.60| 6.62| 1.85| 0.68| 58.10| 1.00| 26.41| 0.79| 99.06|
| 39| 3.97| 5.13| 1.99| 0.78| 60.81| 0.97| 25.89| 0.64| 100.18|
| 40| 2.09| 7.24| 3.82| 0.93| 58.53| 0.78| 24.49| 2.00| 99.87|
| 41| 1.30| 5.44| 4.47| 0.74| 57.29| 0.88| 28.03| 2.96| 101.12|
| 42| 2.65| 6.39| 1.59| 0.80| 60.80| 1.07| 24.54| 1.00| 98.83|
| 43| 2.61| 6.22| 1.67| 0.67| 61.73| 1.28| 24.47| 1.95| 100.60|
| 44| 4.11| 6.49| 3.38| 0.80| 58.82| 0.64| 25.53| 0.50| 100.27|
| 45| 2.95| 5.98| 2.00| 0.85| 61.17| 1.10| 26.12| 0.62| 100.79|
| 46| 4.07| 6.66| 2.37| 0.81| 62.49| 1.03| 22.01| 1.03| 100.47|
| 47| 3.63| 6.45| 2.54| 0.72| 64.47| 0.74| 21.98| 0.52| 101.07|
| 48| 3.95| 8.72| 1.68| 0.73| 58.30| 0.82| 25.66| 0.43| 100.28|
| 49| 3.55| 6.63| 2.28| 0.75| 61.06| 1.25| 22.80| 0.73| 99.04|
| 50| 2.00| 5.90| 2.83| 0.71| 55.97| 0.84| 30.89| 0.52| 99.68|
| 51| 1.50| 5.81| 3.68| 0.68| 57.59| 0.85| 27.18| 3.49| 100.77|
|   | 1.43 | 4.99 | 3.51 | 0.77 | 57.81 | 1.09 | 30.74 | 0.49 | 100.84 |
|---|------|------|------|------|-------|------|-------|------|--------|
| 53 | 2.39 | 5.57 | 1.71 | 0.78 | 61.48 | 1.24 | 27.89 | 0.59 | 101.66 |
| 54 | 2.52 | 5.65 | 2.34 | 0.74 | 59.56 | 1.01 | 27.89 | 0.45 | 100.15 |
| 55 | 3.35 | 6.19 | 1.40 | 0.69 | 59.67 | 1.37 | 26.99 | 0.83 | 100.49 |
| 56 | 5.08 | 5.51 | 3.05 | 0.77 | 58.20 | 0.78 | 27.32 | 0.52 | 101.24 |
| 57 | 4.33 | 6.30 | 2.37 | 0.73 | 59.92 | 1.11 | 26.26 | 0.38 | 101.40 |
| 58 | 2.99 | 5.73 | 4.23 | 0.76 | 56.91 | 0.76 | 29.35 | n.d. | 100.73 |
| 59 | 2.32 | 5.94 | 2.56 | 0.73 | 57.72 | 0.73 | 29.94 | 0.45 | 100.38 |
| 60 | 3.18 | 6.43 | 2.33 | 0.68 | 58.90 | 0.90 | 27.97 | 0.47 | 100.86 |
| 61 | 3.56 | 6.22 | 1.92 | 0.71 | 59.90 | 1.41 | 26.71 | 0.33 | 100.76 |
| 62 | 3.10 | 6.69 | 1.83 | 0.63 | 58.53 | 1.17 | 27.39 | 0.37 | 99.71 |
| 63 | 1.73 | 5.68 | 3.03 | 0.66 | 55.93 | 0.80 | 31.92 | 0.60 | 100.36 |
| 64 | 3.42 | 6.59 | 2.08 | 0.74 | 59.15 | 1.06 | 27.02 | 0.44 | 100.51 |
| 65 | 2.89 | 5.77 | 1.98 | 0.67 | 60.61 | 1.27 | 27.56 | 0.59 | 101.35 |
| 66 | 3.51 | 5.60 | 2.98 | 0.79 | 57.99 | 0.64 | 28.32 | 1.19 | 101.01 |
| 67 | 1.52 | 5.84 | 2.69 | 0.69 | 57.85 | 0.67 | 30.42 | 0.77 | 100.44 |
| 68 | 3.50 | 6.93 | 1.60 | 0.71 | 59.43 | 1.25 | 26.51 | 0.56 | 100.49 |
| 69 | 1.91 | 5.73 | 2.82 | 0.70 | 56.49 | 0.94 | 30.84 | 0.49 | 99.93 |
| 70 | 4.32 | 4.25 | 3.14 | 0.65 | 58.89 | 0.58 | 27.80 | 0.28 | 99.93 |
| 71 | 2.35 | 4.46 | 1.79 | 0.81 | 62.21 | 1.13 | 27.76 | 0.78 | 101.28 |
| 72 | 3.38 | 6.12 | 1.91 | 0.72 | 59.73 | 1.25 | 26.53 | 1.07 | 100.69 |
| 73 | 2.24 | 5.65 | 2.81 | 0.73 | 58.89 | 1.03 | 29.03 | 0.36 | 100.73 |
| 74 | 2.39 | 5.85 | 2.58 | 0.66 | 59.04 | 1.17 | 28.67 | 0.52 | 100.89 |
| 75 | 2.78 | 6.17 | 2.11 | 0.61 | 57.87 | 1.15 | 27.68 | 0.50 | 98.85 |
| 76 | 3.86 | 5.46 | 2.45 | 0.62 | 59.58 | 1.13 | 25.30 | 0.36 | 98.74 |
| 77 | 1.87 | 5.77 | 3.10 | 0.80 | 56.61 | 0.66 | 29.40 | 0.94 | 99.15 |
| 78 | 1.80 | 5.83 | 2.05 | 0.64 | 56.51 | 0.91 | 31.73 | 1.08 | 100.55 |
| 79 | 1.44 | 5.45 | 4.19 | 0.73 | 56.74 | 0.77 | 31.62 | 0.44 | 101.39 |
| 80 | 3.93 | 6.90 | 2.01 | 0.77 | 59.47 | 1.14 | 26.88 | 0.43 | 101.54 |
| 81 | 2.94 | 6.02 | 2.05 | 0.79 | 60.28 | 1.14 | 27.65 | n.d. | 100.87 |
| 82 | 2.32 | 5.03 | 4.43 | 0.60 | 56.49 | 0.81 | 31.26 | 0.35 | 101.29 |
| 83 | 3.67 | 6.56 | 1.64 | 0.55 | 58.90 | 0.96 | 26.73 | 0.80 | 99.82 |
| 84 | 1.78 | 5.86 | 4.30 | 0.78 | 58.20 | 0.68 | 28.28 | 0.41 | 100.29 |
| 85 | 2.38 | 4.24 | 1.90 | 0.61 | 60.15 | 0.77 | 28.93 | 0.43 | 99.41 |
| 86 | 2.36 | 5.55 | 2.58 | 0.67 | 58.71 | 1.21 | 26.71 | 0.84 | 98.63 |
| 87 | 1.51 | 5.10 | 3.81 | 0.74 | 57.79 | 0.85 | 30.98 | 0.54 | 101.32 |
| 88 | 2.58 | 5.27 | 3.62 | 0.67 | 57.39 | 0.54 | 30.53 | 0.49 | 101.09 |
| 89 | 5.58 | 5.81 | 1.95 | 0.73 | 63.62 | 1.05 | 19.99 | 0.58 | 99.32 |
| 90 | 8.30* | 6.66 | 2.05 | 0.69 | 58.69 | 0.62 | 22.34 | 0.34 | 99.68 |
| 91 | 7.92* | 7.04 | 2.26 | 0.68 | 62.21 | 0.93 | 20.26 | n.d. | 101.29 |
| 92 | 7.70* | 6.20 | 2.14 | 0.84 | 63.20 | 0.74 | 18.61 | n.d. | 99.43 |
| 93 | 8.33* | 6.19 | 2.34 | 0.71 | 60.49 | 0.69 | 20.41 | 0.21 | 99.37 |
| 94 | 6.18* | 5.19 | 1.97 | 0.69 | 61.91 | 0.90 | 21.79 | 2.12 | 100.75 |
| 95 | 0.50* | 6.58 | 3.14 | 0.82 | 58.29 | 0.75 | 17.62 | 10.95 | 98.66 |

*EC-outlier grain
### OtC-V 32-63 μm

|        | MgO   | Al₂O₃ | TiO₂  | V₂O₅  | Cr₂O₃  | MnO  | FeO   | ZnO   | Total  |
|--------|--------|-------|-------|-------|--------|------|-------|-------|--------|
| 1      | 3.25   | 7.47  | 0.51  | 1.02  | 60.85  | 0.43 | 27.67 | n.d.  | 101.20 |
| 2      | 3.82   | 15.56 | 1.84  | 0.68  | 50.13  | 0.68 | 27.15 | n.d.  | 99.86  |
| 3      | 5.01   | 0.40  | 0.67  | 0.53  | 68.20  | 0.77 | 25.04 | n.d.  | 100.61 |
| 4      | 5.78   | 11.06 | 0.69  | 0.55  | 56.73  | n.d. | 25.58 | n.d.  | 100.39 |
| 5      | 4.22   | 5.48  | 0.57  | 0.45  | 61.74  | n.d. | 27.70 | n.d.  | 100.15 |
| 6      | 4.44   | 10.38 | 0.63  | 0.75  | 55.26  | 0.58 | 27.43 | n.d.  | 99.46  |
| 7      | 11.73  | 16.51 | 3.15  | 0.47  | 42.72  | 0.36 | 25.03 | n.d.  | 99.98  |
| 8      | 5.07   | 15.18 | 0.83  | 0.66  | 51.69  | n.d. | 26.52 | n.d.  | 99.94  |
| 9      | 3.47   | 8.93  | 0.46  | 0.77  | 59.61  | 0.95 | 26.42 | n.d.  | 100.60 |
| 10     | 4.47   | 13.39 | 1.26  | 0.56  | 55.01  | 0.80 | 24.83 | 0.29  | 100.62 |
| 11     | 3.71   | 11.34 | 0.77  | 0.56  | 59.44  | 0.76 | 24.56 | n.d.  | 101.14 |
| 12     | 6.97   | 18.34 | 1.23  | 0.49  | 51.74  | n.d. | 21.87 | n.d.  | 100.63 |
| 13     | 4.14   | 7.27  | 0.90  | 0.53  | 61.47  | 1.18 | 22.68 | 1.02  | 99.18  |
| 14     | 4.98   | 11.18 | 0.67  | 0.54  | 54.49  | 0.51 | 27.49 | n.d.  | 99.86  |
| 15     | 3.00   | 6.42  | 0.80  | 0.56  | 58.82  | 1.32 | 28.05 | 0.86  | 99.82  |
| 16     | 2.06   | 5.44  | 5.13  | 0.74  | 54.72  | 0.60 | 31.34 | 1.34  | 101.36 |
| 17     | 4.65   | 10.09 | 0.86  | 0.56  | 59.19  | 0.70 | 25.34 | n.d.  | 101.38 |
| 18     | 2.86   | 5.09  | 5.10  | 0.78  | 54.62  | 0.71 | 32.09 | n.d.  | 101.27 |
| 19     | 4.35   | 13.47 | 3.12  | 0.64  | 51.16  | 0.93 | 26.96 | n.d.  | 100.63 |
| 20     | 1.80   | 5.18  | 1.93  | 0.53  | 56.43  | 0.70 | 31.42 | 1.29  | 99.27  |
| 21     | 4.44   | 9.62  | 1.07  | 0.83  | 57.55  | 0.56 | 27.19 | n.d.  | 101.25 |
| 22     | 1.54   | 4.78  | 1.04  | 0.58  | 59.94  | 0.85 | 29.46 | 1.83  | 100.02 |
| 23     | 4.21   | 9.25  | 1.06  | 0.77  | 56.15  | 0.67 | 27.45 | n.d.  | 99.56  |
| 24     | 4.14   | 9.63  | 1.06  | 0.71  | 56.49  | 0.77 | 28.17 | n.d.  | 100.96 |
| 25     | 10.22  | 6.36  | 1.94  | 0.66  | 60.15  | 0.59 | 18.65 | 0.31  | 98.89  |
| 26     | 9.40   | 6.12  | 2.25  | 0.69  | 60.75  | 0.69 | 19.83 | n.d.  | 99.72  |

### OtC 32-63 μm

|        | MgO | Al₂O₃ | TiO₂ | V₂O₅ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|--------|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1      | 9.36| 14.97 | n.d. | 0.19 | 53.19 | 0.55| 22.00| n.d.| 100.26|
| 2      | 5.54| 9.80  | 0.58 | n.d. | 58.93 | 0.56| 19.65| 4.09| 99.15 |
| 3      | 13.01| 12.25 | 0.26 | n.d. | 57.38 | n.d.| 16.98| n.d.| 99.87 |
| 4      | 1.47| 8.41  | n.d. | n.d. | 55.32 | 1.63| 33.26| 0.85| 100.93|
| 5      | 6.25| 18.21 | 1.45 | 0.44 | 48.41 | n.d.| 25.99| 0.28| 101.04|
| 6      | 7.41| 10.04 | n.d. | n.d. | 61.38 | 0.73| 19.20| 0.79| 99.54 |
| 7      | 11.66| 17.69 | 1.06 | 0.20 | 40.81 | n.d.| 28.58| n.d.| 100.00|
| 8      | 12.40| 21.53 | 0.65 | n.d. | 40.76 | 0.43| 24.20| n.d.| 99.97 |
| 9      | 12.00| 24.36 | n.d. | n.d. | 42.63 | 0.47| 20.56| n.d.| 100.02|
| 10     | 11.89| 19.79 | 1.64 | 0.32 | 39.10 | 0.54| 27.18| n.d.| 100.46|
| 11     | 10.69| 10.43 | n.d. | n.d. | 60.36 | 0.58| 18.71| n.d.| 100.76|
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 12| 11.33| 19.87| n.d.| n.d.| 49.58| 0.43| 18.55| n.d.| 99.76|
| 13| 11.63| 19.37| 0.47| n.d.| 46.71| 0.65| 21.76| n.d.| 100.59|
| 14| 13.65| 20.92| 0.51| n.d.| 44.71| n.d.| 20.59| n.d.| 100.38|
| 15| 2.87 | 9.26 | 0.94| n.d.| 49.25| 0.68| 36.26| 0.75| 100.01|
| 16| 3.23 | 18.17| n.d.| n.d.| 47.48| 1.47| 27.67| 1.53| 99.55 |
| 17| 13.02| 14.56| 0.25| n.d.| 52.33| 0.56| 19.53| n.d.| 100.25|
| 18| 16.63| 16.44| n.d.| n.d.| 57.59| n.d.| 9.52 | n.d.| 100.19|
| 19| 8.64 | 11.29| n.d.| n.d.| 56.31| 0.45| 22.31| 0.33| 99.31 |
| 20| 0.26 | 14.86| 0.25| n.d.| 52.41| 1.52| 26.86| 3.29 | 99.46 |
| 21| 21.21| 15.51| n.d.| n.d.| 54.67| 0.61| 8.80 | n.d.| 100.79|
| 22| 9.75 | 11.80| n.d.| 0.19| 59.85| 0.60| 17.43| 0.72 | 100.35|
| 23| 9.62 | 12.60| 0.26| n.d.| 53.39| 0.52| 23.58| n.d.| 99.97 |
| 24| 10.95| 20.86| 0.56| n.d.| 41.17| 0.42| 25.73| n.d.| 99.68 |
| 25| 11.67| 11.48| 0.23| n.d.| 56.70| 0.49| 19.72| n.d.| 100.29|
| 26| 4.43 | 11.48| n.d.| 0.28| 58.99| 0.53| 23.69| 0.35| 99.75 |
| 27| 8.31 | 8.84 | n.d.| n.d.| 64.65| 3.52| 14.79| 0.74| 100.84|
| 28| 7.74 | 19.86| n.d.| n.d.| 45.59| 0.54| 24.64| 0.36| 98.72 |
| 29| 1.58 | 9.29 | 0.34| n.d.| 58.67| 1.93| 25.75| 2.44 | 100.01|
| 30| 8.69 | 15.63| n.d.| 0.27| 57.09| 0.52| 16.98| 0.77| 99.94 |
| 31| 10.83| 4.30 | n.d.| n.d.| 70.59| 3.29| 10.05| 2.13 | 101.18|
| 32| 10.35| 12.58| n.d.| n.d.| 54.50| 0.43| 22.56| n.d.| 100.42|
| 33| 7.75 | 15.01| n.d.| 0.30| 57.51| n.d.| 17.78| 0.44| 98.80 |
| 34| 8.27 | 17.41| n.d.| n.d.| 51.10| 2.07| 17.27| 3.73 | 99.86 |
| 35| 6.21 | 17.61| n.d.| n.d.| 53.21| 0.53| 21.18| 0.37 | 99.11 |
| 36| 10.26| 12.28| n.d.| n.d.| 60.01| 1.01| 16.04| 0.57 | 100.17|
| 37| 10.56| 17.06| 1.72| 0.29| 38.22| n.d.| 31.78| n.d.| 99.62 |
| 38| 6.09 | 13.69| 1.13| n.d.| 39.16| 0.54| 38.37| 0.37 | 99.35 |
| 39| 14.88| 25.45| 0.64| n.d.| 38.64| n.d.| 20.34| n.d.| 99.94 |
| 40| 2.92 | 9.02 | 0.48| n.d.| 53.02| 1.67| 31.97| 0.68 | 99.77 |
| 41| 11.54| 19.72| 1.50| 0.29| 36.71| n.d.| 29.89| n.d.| 99.66 |
| 42| 11.42| 19.11| 0.77| n.d.| 41.88| 0.32| 25.94| n.d.| 99.45 |
| 43| 6.40 | 12.49| 1.32| 0.31| 41.24| n.d.| 37.53| n.d.| 99.29 |
| 44| 9.79 | 23.88| 0.43| 0.28| 37.72| n.d.| 27.65| n.d.| 99.75 |
| 45| 12.51| 21.71| 1.46| n.d.| 37.12| n.d.| 27.08| n.d.| 99.88 |
| 46| 7.67 | 6.15 | n.d.| n.d.| 58.98| 2.26| 24.72| n.d.| 99.78 |
| 47| 10.44| 16.09| 0.99| 0.21| 42.14| n.d.| 29.64| n.d.| 99.51 |
| 48| 5.04 | 9.78 | n.d.| 0.28| 62.04| 2.57| 14.62| 4.98 | 99.32 |
| 49| 12.79| 26.26| 1.31| n.d.| 34.11| n.d.| 26.47| n.d.| 100.95|
| 50| 9.37 | 21.89| 0.65| 0.29| 41.94| n.d.| 25.80| n.d.| 99.94 |
| 51| 8.19 | 14.06| 1.74| 0.32| 40.07| n.d.| 35.37| n.d.| 99.74 |
| 52| 16.28| 26.34| 0.57| n.d.| 39.52| n.d.| 17.21| n.d.| 99.91 |
| 53| 6.92 | 12.58| 2.29| n.d.| 46.32| 0.88| 31.02| 0.31 | 100.32|
| 54| 5.12 | 5.37 | n.d.| n.d.| 58.91| 1.22| 26.36| 3.07 | 100.06|
| 55| 11.43| 19.07| 1.64| n.d.| 36.69| n.d.| 30.35| n.d.| 99.16 |
| 56| 2.69 | 2.04 | 1.37| n.d.| 40.95| 1.27| 50.22| 0.46 | 99.01 |
|    | 101 | 100 | 99 | 98 | 94 | 93 | 92 | 89 | 88 | 82 | 81 |
|----|-----|-----|----|----|----|----|----|----|----|----|----|
| 57 | 12.00 | 21.82 | 0.91 | n.d. | 41.07 | 0.57 | 23.23 | n.d. | 99.61 |
| 58 | 6.84 | 8.50 | n.d. | n.d. | 57.99 | 0.58 | 22.03 | 2.70 | 98.63 |
| 59 | 9.62 | 22.50 | 0.77 | 0.40 | 39.98 | n.d. | 25.35 | n.d. | 98.62 |
| 60 | 13.38 | 25.23 | 0.62 | n.d. | 37.07 | n.d. | 23.56 | n.d. | 99.86 |
| 61 | 14.04 | 24.53 | 0.63 | n.d. | 39.32 | n.d. | 21.24 | n.d. | 99.75 |
| 62 | 12.15 | 17.69 | n.d. | 0.38 | 50.02 | n.d. | 20.24 | n.d. | 100.47 |
| 63 | 8.25 | 13.10 | n.d. | 0.29 | 54.80 | 2.50 | 21.55 | n.d. | 100.49 |
| 64 | 12.24 | 15.06 | 0.35 | n.d. | 50.61 | 0.52 | 21.39 | n.d. | 100.17 |
| 65 | 14.46 | 25.10 | 0.66 | n.d. | 39.02 | n.d. | 21.14 | n.d. | 100.38 |
| 66 | 13.25 | 25.32 | 0.81 | n.d. | 35.33 | n.d. | 24.38 | n.d. | 99.08 |
| 67 | 10.62 | 22.17 | 0.84 | n.d. | 39.71 | 0.55 | 26.83 | n.d. | 100.71 |
| 68 | 14.16 | 25.89 | 0.55 | n.d. | 37.43 | n.d. | 21.85 | n.d. | 99.88 |
| 69 | 12.15 | 21.07 | 1.41 | 0.33 | 40.18 | 0.39 | 24.77 | n.d. | 100.30 |
| 70 | 11.75 | 20.89 | 1.56 | 0.26 | 35.68 | 0.45 | 29.49 | n.d. | 100.07 |
| 71 | 12.48 | 26.27 | n.d. | 0.35 | 39.69 | n.d. | 20.54 | n.d. | 99.33 |
| 72 | 7.48 | 9.96 | 0.29 | n.d. | 53.40 | 0.73 | 28.61 | n.d. | 100.47 |
| 73 | 12.73 | 24.22 | 0.87 | n.d. | 39.63 | n.d. | 22.83 | n.d. | 100.28 |
| 74 | 10.74 | 18.73 | n.d. | n.d. | 48.38 | n.d. | 20.32 | n.d. | 98.18 |
| 75 | 10.14 | 8.58 | n.d. | n.d. | 62.98 | 3.65 | 11.36 | 3.12 | 99.84 |
| 76 | 9.10 | 7.28 | n.d. | n.d. | 62.54 | 3.70 | 15.84 | 0.42 | 98.87 |
| 77 | 10.00 | 13.57 | 0.88 | n.d. | 44.79 | 0.69 | 30.46 | n.d. | 100.39 |
| 78 | 7.47 | 14.04 | 0.61 | n.d. | 48.61 | 1.01 | 26.60 | 0.42 | 98.76 |
| 79 | 9.39 | 15.60 | n.d. | n.d. | 49.63 | 0.57 | 25.10 | n.d. | 100.29 |
| 80 | 13.97 | 25.81 | 0.63 | n.d. | 36.21 | n.d. | 21.97 | n.d. | 98.59 |
| 81 | 5.00 | 22.71 | 0.79 | n.d. | 38.80 | 1.50 | 30.50 | 0.53 | 99.84 |
| 82 | 13.23 | 23.59 | 0.70 | n.d. | 37.84 | n.d. | 24.05 | n.d. | 99.40 |
| 83 | 6.90 | 9.46 | 0.54 | n.d. | 58.53 | 0.50 | 24.59 | n.d. | 100.52 |
| 84 | 13.08 | 21.65 | 1.29 | 0.30 | 39.94 | 0.46 | 23.85 | n.d. | 100.59 |
| 85 | 12.72 | 22.79 | 0.60 | n.d. | 40.76 | n.d. | 23.59 | n.d. | 100.46 |
| 86 | 11.76 | 21.27 | 1.21 | n.d. | 38.17 | 0.40 | 27.74 | n.d. | 100.56 |
| 87 | 12.36 | 19.31 | n.d. | n.d. | 52.22 | 0.36 | 17.21 | n.d. | 101.46 |
| 88 | 13.52 | 12.06 | 0.96 | n.d. | 55.31 | n.d. | 18.30 | n.d. | 100.15 |
| 89 | 10.74 | 19.13 | 1.16 | n.d. | 37.10 | n.d. | 31.01 | n.d. | 99.13 |
| 90 | 11.36 | 16.13 | 3.65 | 0.43 | 37.00 | n.d. | 31.70 | n.d. | 100.27 |
| 91 | 1.83 | 8.58 | 0.48 | n.d. | 55.43 | 1.43 | 31.00 | 0.91 | 99.66 |
| 92 | 3.47 | 9.41 | n.d. | 0.28 | 54.32 | 0.54 | 32.07 | 0.68 | 100.77 |
| 93 | 0.61 | 17.27 | 0.31 | n.d. | 38.82 | 2.28 | 34.23 | 7.33 | 100.84 |
| 94 | 6.53 | 15.38 | n.d. | 0.25 | 53.19 | 6.67 | 16.57 | 1.23 | 99.83 |
| 95 | 9.61 | 2.59 | n.d. | n.d. | 70.21 | 1.00 | 17.28 | 0.47 | 101.16 |
| 96 | 2.95 | 12.50 | 0.32 | n.d. | 49.50 | 0.51 | 33.04 | 0.91 | 99.75 |
| 97 | 5.76 | 8.95 | n.d. | n.d. | 59.13 | 4.61 | 17.86 | 2.10 | 98.41 |
| 98 | 10.35 | 16.99 | 1.92 | n.d. | 38.47 | n.d. | 32.17 | n.d. | 99.90 |
| 99 | 10.05 | 4.45 | 0.98 | n.d. | 47.89 | n.d. | 35.70 | n.d. | 99.07 |
| 100 | 6.09 | 13.95 | 2.50 | n.d. | 49.63 | n.d. | 27.17 | 0.99 | 100.32 |
| 101 | 10.48 | 17.34 | 1.84 | 0.27 | 36.79 | 0.52 | 32.59 | n.d. | 99.82 |
|    |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|
| 102| 10.39 | 11.58 | 3.09  | n.d.  | 45.32 | 0.42  | 28.64 |
| 103| 13.15 | 18.64 | 0.55  | n.d.  | 46.99 | n.d.  | 18.87 |
| 104| 6.26  | 8.33  | 0.32  | n.d.  | 54.44 | 0.95  | 29.44 |
| 105| 11.64 | 21.97 | 0.70  | n.d.  | 37.09 | 0.47  | 28.37 |
| 106| 11.19 | 16.22 | n.d.  | n.d.  | 51.18 | 0.47  | 20.55 |
| 107| 12.90 | 21.49 | n.d.  | n.d.  | 44.39 | n.d.  | 20.28 |
| 108| 10.55 | 12.89 | 0.20  | n.d.  | 54.36 | n.d.  | 22.14 |
| 109| 11.07 | 17.11 | 1.69  | n.d.  | 40.48 | 0.52  | 28.01 |
| 110| 14.40 | 22.19 | 0.40  | n.d.  | 43.93 | n.d.  | 17.60 |
| 111| 10.43 | 19.46 | 1.78  | n.d.  | 38.55 | 0.45  | 29.90 |
| 112| 14.20 | 25.58 | 0.83  | n.d.  | 38.98 | n.d.  | 20.17 |
| 113| 0.35  | 8.94  | 0.23  | n.d.  | 51.90 | 1.90  | 32.49 |
| 114| 4.73  | 5.47  | 0.42  | n.d.  | 64.24 | 0.87  | 24.64 |
| 115| 10.71 | 16.47 | 0.27  | n.d.  | 49.30 | n.d.  | 21.95 |
| 116| 5.06  | 6.01  | 0.33  | n.d.  | 59.84 | n.d.  | 28.01 |
| 117| 11.25 | 16.78 | 0.51  | n.d.  | 47.99 | n.d.  | 22.38 |
| 118| 1.28  | 0.85  | 2.46  | 0.34  | 42.02 | 0.68  | 50.90 |
| 119| 13.31 | 25.03 | 0.86  | n.d.  | 36.69 | n.d.  | 23.36 |
| 120| 6.74  | 12.46 | 0.50  | n.d.  | 48.78 | 0.54  | 31.03 |
| 121| 14.01 | 24.35 | 0.59  | n.d.  | 40.31 | n.d.  | 21.60 |
| 122| 8.58  | 12.54 | 0.31  | n.d.  | 54.97 | 0.59  | 22.35 |
| 123| 2.01  | 7.89  | n.d.  | 0.19  | 49.74 | 1.66  | 38.45 |
| 124| 9.90  | 11.66 | 0.30  | n.d.  | 54.11 | 0.51  | 24.44 |
| 125| 11.90 | 18.87 | 0.31  | n.d.  | 47.18 | 0.43  | 20.48 |
| 126| 15.25 | 29.19 | 0.46  | n.d.  | 36.81 | n.d.  | 18.07 |
| 127| 7.55  | 7.96  | n.d.  | n.d.  | 66.65 | 9.43  | 7.73  |
| 128| 7.37  | 9.34  | n.d.  | 0.47  | 57.86 | 1.07  | 23.29 |
| 129| 4.49  | 5.33  | n.d.  | 0.46  | 64.54 | 0.93  | 25.17 |
| 130| 9.94  | 19.62 | 1.14  | 0.27  | 43.37 | 0.55  | 24.82 |
| 131| 11.68 | 22.86 | 0.92  | n.d.  | 37.24 | 0.46  | 25.80 |
| 132| 13.78 | 25.22 | 0.65  | 0.25  | 37.26 | n.d.  | 22.83 |
| 133| 7.10  | 15.92 | 0.43  | n.d.  | 47.65 | 0.95  | 28.24 |
| 134| 11.88 | 20.73 | 1.13  | 0.23  | 40.23 | n.d.  | 24.52 |
| 135| 11.74 | 20.00 | n.d.  | 0.26  | 49.57 | 0.44  | 18.25 |
| 136| 1.10  | 8.12  | n.d.  | n.d.  | 55.31 | 2.30  | 31.31 |
| 137| 11.61 | 20.67 | 1.10  | n.d.  | 39.78 | 0.45  | 26.15 |
| 138| 9.57  | 25.96 | 0.41  | n.d.  | 36.23 | 0.48  | 26.10 |
| 139| 12.16 | 21.33 | 1.07  | 0.19  | 40.34 | 0.40  | 25.00 |
| 140| 3.16  | 8.38  | n.d.  | 0.34  | 63.72 | 0.83  | 19.63 |
| 141| 13.90 | 26.16 | 0.86  | n.d.  | 34.58 | n.d.  | 25.59 |
| 142| 3.28  | 17.76 | 0.68  | 0.24  | 41.55 | 0.71  | 34.34 |
| 143| 10.77 | 13.02 | 0.22  | n.d.  | 53.98 | n.d.  | 22.84 |
| 144| 9.66  | 20.30 | 1.44  | 0.23  | 35.17 | n.d.  | 31.59 |
| 145| 3.14  | 5.25  | 0.30  | n.d.  | 53.96 | 0.66  | 33.87 |
| 146| 2.82  | 7.99  | n.d.  | n.d.  | 57.42 | 0.67  | 29.90 |
|    |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 192 | 11.66 | 17.25 | n.d. | n.d. | 50.09 | n.d. | 20.94 | n.d. | 99.94 |
| 193 | 10.44 | 18.27 | 1.25 | n.d. | 39.79 | 0.48 | 30.09 | n.d. | 100.32 |
| 194 | 10.11 | 18.15 | 0.82 | n.d. | 45.30 | n.d. | 25.80 | n.d. | 100.19 |
| 195 | 10.07 | 20.80 | 1.46 | n.d. | 39.35 | n.d. | 28.97 | n.d. | 100.64 |
| 196 | 12.07 | 25.11 | 0.27 | n.d. | 40.23 | 0.37 | 21.13 | n.d. | 99.18 |
| 197 | 6.23 | 18.89 | n.d. | n.d. | 53.58 | n.d. | 19.37 | 0.40 | 98.46 |
| 198 | 11.31 | 24.53 | 0.79 | n.d. | 40.67 | n.d. | 22.53 | n.d. | 99.84 |
| 199 | 8.19 | 15.00 | 2.53 | 0.32 | 40.69 | 0.40 | 32.61 | n.d. | 99.75 |
| 200 | 2.62 | 11.51 | 1.21 | 0.44 | 46.99 | 0.52 | 36.36 | 0.57 | 100.24 |
| 201 | 5.56 | 9.62 | n.d. | n.d. | 65.64 | 4.00 | 14.76 | 1.34 | 100.92 |
| 202 | 11.33 | 18.39 | 1.62 | 0.37 | 44.48 | n.d. | 24.19 | n.d. | 100.37 |
| 203 | 8.94 | 19.55 | 1.25 | 0.27 | 44.72 | 0.38 | 25.42 | n.d. | 100.53 |
| 204 | 8.37 | 17.50 | n.d. | n.d. | 58.24 | n.d. | 15.93 | 0.47 | 100.50 |
| 205 | 10.8 | 24.40 | 0.57 | n.d. | 40.49 | n.d. | 23.58 | n.d. | 99.84 |
| 206 | 9.52 | 22.56 | 1.10 | n.d. | 36.80 | n.d. | 31.20 | n.d. | 101.18 |
| 207 | 10.88 | 23.06 | 0.89 | 0.23 | 36.57 | n.d. | 28.31 | n.d. | 99.96 |
| 208 | 8.20 | 21.47 | 1.65 | n.d. | 40.92 | n.d. | 27.28 | n.d. | 99.52 |
| 209 | 5.22 | 13.05 | n.d. | 0.34 | 59.27 | 1.74 | 18.74 | 3.00 | 101.36 |
| 210 | 11.96 | 24.06 | 0.89 | n.d. | 39.96 | n.d. | 23.34 | n.d. | 100.21 |
| 211 | 12.04 | 25.31 | 0.90 | n.d. | 37.99 | n.d. | 22.43 | n.d. | 98.67 |
| 212 | 11.67 | 20.18 | 0.67 | n.d. | 42.86 | n.d. | 24.06 | n.d. | 99.43 |
| 213 | 9.61 | 14.55 | 2.29 | n.d. | 39.76 | 0.58 | 32.22 | n.d. | 99.01 |
| 214 | 9.37 | 21.66 | 0.77 | n.d. | 38.62 | 0.52 | 26.93 | 0.38 | 98.25 |
| 215 | 0.73 | 1.48 | n.d. | n.d. | 47.83 | 3.49 | 45.86 | 0.63 | 100.03 |
| 216 | 11.53 | 22.61 | 0.96 | 0.28 | 36.31 | 0.45 | 27.74 | 0.21 | 100.07 |
| 217 | 10.29 | 17.72 | 1.48 | n.d. | 36.07 | 0.49 | 33.94 | n.d. | 99.99 |
| 218 | 12.24 | 18.93 | 0.55 | n.d. | 46.62 | n.d. | 21.82 | n.d. | 100.17 |
| 219 | 9.99 | 17.77 | 0.81 | n.d. | 43.36 | 0.42 | 27.78 | n.d. | 100.13 |
| 220 | 16.61 | 30.92 | 0.43 | n.d. | 37.03 | n.d. | 14.95 | n.d. | 99.94 |
| 221 | 12.56 | 16.87 | 0.38 | n.d. | 50.34 | n.d. | 20.85 | n.d. | 101.00 |
| 222 | 10.14 | 19.86 | 0.76 | n.d. | 42.51 | 0.40 | 26.99 | n.d. | 100.66 |
| 223 | 6.01 | 14.02 | 1.42 | 0.40 | 53.31 | 1.03 | 24.11 | n.d. | 100.31 |
| 224 | 12.95 | 24.61 | 1.03 | n.d. | 36.12 | 0.26 | 24.82 | n.d. | 99.79 |
| 225 | 7.64 | 14.06 | n.d. | 0.38 | 62.10 | 0.82 | 15.04 | 0.82 | 100.85 |
| 226 | 11.08 | 18.72 | 0.70 | n.d. | 38.21 | 0.50 | 31.28 | n.d. | 100.51 |
| 227 | 10.37 | 22.92 | 0.96 | 0.28 | 34.95 | 0.52 | 30.38 | n.d. | 100.38 |
| 228 | 12.21 | 22.27 | 1.10 | 0.21 | 36.72 | n.d. | 27.51 | n.d. | 100.02 |
| 229 | 4.37 | 14.15 | 1.75 | 0.30 | 37.42 | 0.62 | 42.31 | 0.42 | 101.35 |
| 230 | 10.55 | 18.76 | 0.80 | n.d. | 42.85 | n.d. | 26.08 | n.d. | 99.04 |
| 231 | 13.11 | 25.97 | 1.12 | n.d. | 34.59 | 0.39 | 26.12 | n.d. | 101.30 |
| 232 | 12.50 | 24.93 | 1.21 | n.d. | 32.09 | n.d. | 29.79 | n.d. | 100.52 |
| 233 | 9.81 | 19.79 | 1.01 | 0.42 | 34.12 | n.d. | 34.83 | n.d. | 99.98 |
| 234 | 10.11 | 17.11 | 1.75 | 0.34 | 39.97 | 0.41 | 31.74 | n.d. | 101.42 |
| 235 | 11.87 | 18.52 | 1.49 | 0.27 | 41.69 | n.d. | 27.42 | n.d. | 101.26 |
| 236 | 10.43 | 18.70 | 1.44 | 0.25 | 36.77 | 0.50 | 30.38 | n.d. | 98.46 |
Andrarum limestone (Andrarum), mount 433, weight 124 kg. Only searched for >63 µm grains.

EC >63 µm

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1  | 3.96| 6.00  | 2.40 | 0.57 | 60.23 | 1.01| 26.66|   n.d.| 100.83 |
| 2  | 3.29| 6.50  | 1.92 | 0.70 | 59.75 | 1.20| 27.04|   n.d.| 100.41 |
| 3  | 3.84| 6.32  | 2.29 | 0.68 | 59.25 | 1.09| 26.64|   n.d.| 100.10 |
| 4  | 1.64| 5.34  | 4.38 | 0.69 | 56.88 | n.d.| 31.37|   n.d.| 100.30 |
| 5  | 3.31| 6.86  | 2.23 | 0.70 | 58.72 | 0.93| 26.93|   n.d.| 99.69  |
| 6  | 1.65| 5.29  | 4.41 | 0.65 | 55.47 | n.d.| 31.53|   n.d.| 99.00  |
| 7  | 4.24| 6.95  | 1.88 | 0.72 | 59.03 | 1.06| 25.65|   n.d.| 99.54  |
| 8  | 3.49| 6.54  | 2.45 | 0.74 | 59.03 | 0.93| 27.01|   0.52| 100.71 |
| 9  | 4.34| 6.29  | 2.23 | 0.76 | 59.14 | 0.93| 26.76|   n.d.| 100.44 |
| 10 | 2.73| 6.20  | 1.11 | 0.60 | 58.97 | 1.13| 27.58|   1.64| 99.97  |
| 11 | 3.50| 5.94  | 2.46 | 0.67 | 59.85 | 0.90| 26.66|   n.d.| 99.97  |
| 12 | 2.97| 6.84  | 1.90 | 0.84 | 59.79 | 1.03| 26.71|   n.d.| 100.07 |
| 13 | 3.86| 6.41  | 2.43 | 0.74 | 60.13 | 0.94| 26.46|   n.d.| 100.97 |
| 14 | 4.83| 6.12  | 2.18 | 0.69 | 60.89 | 1.14| 24.96|   n.d.| 100.81 |
| 15 | 1.36| 5.66  | 3.33 | 0.81 | 55.11 | n.d.| 28.50|   4.45| 99.21  |
| 16 | 3.91| 6.16  | 2.17 | 0.84 | 59.95 | 1.00| 26.79|   n.d.| 100.82 |
|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total  |
|---|-----|-------|------|------|-------|-----|-----|-----|--------|
| 17|  5.22 |  6.56 |  2.69 |  0.81 |  61.34 |  0.64 | 22.16 | n.d. |  99.42 |
| 18|  2.67 |  5.93 |  3.40 |  0.85 |  56.04 |  0.67 | 29.60 | n.d. |  99.16 |
| 19|  2.67 |  6.54 |  2.28 |  0.79 |  58.52 |  0.88 | 27.92 |  0.59 | 100.20 |
| 20|  2.87 |  6.30 |  2.08 |  0.84 |  58.46 |  0.86 | 27.16 |  0.63 |  99.19 |
| 21|  4.41 |  5.39 |  1.98 |  0.65 |  61.02 |  1.35 | 24.41 | n.d. |  99.21 |
| 22|  4.84 |  5.95 |  3.38 |  0.67 |  57.72 | n.d. | 26.11 | n.d. |  98.66 |
| 23|  4.11 |  5.27 |  1.94 |  0.76 |  61.17 |  1.10 | 25.09 | n.d. |  99.44 |
| 24|  3.22 |  6.86 |  1.79 |  0.59 |  58.95 |  1.08 | 27.71 |  1.00 | 101.20 |
| 25|  3.06 |  6.13 |  2.59 |  0.61 |  58.68 |  0.81 | 27.15 | n.d. |  99.03 |
| 26|  2.99 |  6.48 |  2.25 |  0.70 |  59.89 |  1.08 | 27.82 | n.d. | 101.21 |
| 27|  2.97 |  5.95 |  2.42 |  0.63 |  60.73 |  0.90 | 26.47 | n.d. | 100.09 |
| 28|  3.31 |  6.45 |  2.36 |  0.69 |  59.41 |  0.85 | 27.25 |  0.32 | 100.63 |
| 29|  0.68* |  4.44 |  2.46 |  0.86 |  58.20 |  0.97 | 26.02 |  5.91 |  99.55 |

*EC-outlier grain

**OtC-V >63 µm**

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total  |
|---|-----|-------|------|------|-------|-----|-----|-----|--------|
| 1 |  4.00 |  11.40 |  0.90 |  0.73 |  56.39 |  0.61 | 26.37 | n.d. | 100.40 |
| 2 |  3.30 |  7.45 | n.d. |  1.03 |  60.89 |  0.69 | 26.36 |  0.29 | 100.01 |
| 3 |  0.58 |  7.79 |  5.50 |  0.54 |  49.83 |  0.81 | 33.41 |  1.19 |  99.65 |
| 4 |  4.05 |  9.11 |  0.67 |  0.50 |  59.99 |  0.70 | 26.08 | n.d. | 101.11 |
| 5 |  3.88 |  9.47 |  0.91 |  0.55 |  58.81 |  0.74 | 26.28 | n.d. | 100.65 |

**OtC >63 µm**

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total  |
|---|-----|-------|------|------|-------|-----|-----|-----|--------|
| 1 | 12.86 |  25.84 |  0.66 | n.d. |  35.76 | n.d. | 23.57 | n.d. |  98.70 |
| 2 | 14.18 |  23.08 |  0.53 | n.d. |  42.88 |  0.32 | 18.77 | n.d. |  99.76 |
| 3 | 11.17 |  21.58 |  1.14 | n.d. |  36.88 | n.d. | 28.09 | n.d. |  98.86 |
| 4 | 11.51 |  22.36 |  0.89 | n.d. |  36.80 | n.d. | 28.13 | n.d. |  99.69 |
| 5 | 12.40 |  21.41 |  1.52 | n.d. |  37.67 | n.d. | 26.32 | n.d. |  99.32 |
| 6 | 11.74 |  17.70 |  0.60 | n.d. |  48.15 | n.d. | 21.57 | n.d. |  99.77 |
| 7 | 11.72 |  22.92 |  0.96 | n.d. |  36.41 | n.d. | 27.83 | n.d. |  99.84 |
| 8 |  3.80 |  15.73 |  1.10 |  0.40 |  51.37 |  0.61 | 26.89 | n.d. |  99.88 |

**Andrarum limestone (Baskemölla), mounts 411b, 414-417, weight 85 kg**

**EC >63 µm**


|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO  | ZnO | Total     |
|----|-----|-------|------|------|-------|-----|------|-----|----------|
| 1  | 5.35| 5.45  | 2.16 | 0.78 | 62.39 | 0.96| 23.16| n.d.| 100.24   |
| 2  | 2.76| 5.06  | 3.17 | 0.71 | 59.27 | 0.75| 29.13| n.d.| 100.84   |
| 3  | 4.47| 6.18  | 2.31 | 0.66 | 60.45 | 0.83| 25.50| 0.21| 100.60   |
| 4  | 5.55| 5.77  | 3.08 | 0.81 | 57.98 | 0.57| 26.15| n.d.| 99.92    |
| 5  | 2.59| 5.51  | 1.95 | 0.77 | 61.03 | 1.14| 26.52| 0.31| 99.83    |
| 6  | 1.88| 5.65  | 3.36 | 0.75 | 57.62 | 0.69| 30.26| n.d.| 100.21   |
| 7  | 2.36| 5.27  | 3.84 | 0.72 | 57.96 | 0.68| 29.57| n.d.| 100.39   |
| 8  | 6.78*| 5.92 | 3.53 | 0.75 | 58.78 | n.d.| 23.98| n.d.| 99.73    |

*EC-outlier grain

**OtC-V >63 μm**

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO  | ZnO | Total     |
|----|-----|-------|------|------|-------|-----|------|-----|----------|
| 1  | 5.48| 12.88 | 0.52 | 0.66 | 53.91 | n.d.| 26.40| n.d.| 99.85    |
| 2  | 5.33| 13.58 | 0.62 | 0.59 | 54.80 | n.d.| 26.09| n.d.| 101.01   |
| 3  | 4.84| 9.69  | 0.55 | 0.89 | 58.51 | 1.03| 24.43| n.d.| 99.94    |
| 4  | 3.32| 6.46  | 0.45 | 0.93 | 61.42 | 0.90| 27.15| n.d.| 100.64   |

**OtC >63 μm**

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO  | ZnO | Total     |
|----|-----|-------|------|------|-------|-----|------|-----|----------|
| 1  | 10.35| 13.30 | 0.56 | n.d. | 49.41 | n.d.| 25.90| n.d.| 99.52    |
| 2  | 12.16| 22.48 | 0.28 | n.d. | 44.95 | n.d.| 19.28| n.d.| 99.15    |
| 3  | 14.56| 29.61 | 0.91 | n.d. | 32.95 | n.d.| 21.67| n.d.| 99.70    |
| 4  | 11.24| 16.10 | 0.30 | n.d. | 51.28 | 0.50| 20.46| n.d.| 99.88    |
| 5  | 12.99| 29.13 | 0.58 | n.d. | 30.32 | n.d.| 26.46| n.d.| 99.49    |
| 6  | 9.28 | 16.23 | 0.36 | n.d. | 51.32 | n.d.| 22.52| n.d.| 99.71    |
| 7  | 5.34 | 11.26 | 0.56 | n.d. | 40.75 | 2.14| 39.02| 1.15| 100.24   |
| 8  | 13.71| 25.57 | 0.67 | n.d. | 36.70 | n.d.| 22.44| n.d.| 99.09    |
| 9  | 10.62| 28.10 | 0.27 | n.d. | 35.50 | 0.29| 24.58| n.d.| 99.35    |
| 10 | 5.72 | 12.38 | 0.48 | 0.27 | 45.31 | 0.71| 35.27| n.d.| 100.13   |
| 11 | 12.85| 26.10 | 0.69 | n.d. | 33.76 | n.d.| 26.07| n.d.| 99.48    |
| 12 | 13.57| 25.57 | 0.67 | n.d. | 37.46 | n.d.| 22.66| n.d.| 99.92    |
| 13 | 12.75| 28.20 | 0.72 | n.d. | 30.48 | 0.46| 27.95| n.d.| 100.56   |
| 14 | 1.89 | 17.43 | 0.95 | 0.38 | 48.11 | 0.59| 30.49| n.d.| 99.83    |
| 15 | 12.13| 26.05 | 0.95 | 0.22 | 31.87 | 0.39| 27.92| n.d.| 99.52    |
| 16 | 12.72| 25.66 | 0.72 | n.d. | 34.42 | n.d.| 26.77| n.d.| 100.29   |
| 17 | 12.88| 26.38 | 0.74 | n.d. | 32.49 | n.d.| 26.69| n.d.| 99.18    |
| 18 | 12.59| 25.44 | 0.84 | n.d. | 34.14 | n.d.| 26.80| n.d.| 99.81    |
| 19 | 10.10| 14.75 | 2.68 | 0.53 | 38.41 | n.d.| 32.88| n.d.| 99.36    |
### EC 32-63 μm

|   | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|------|-------|------|------|-------|------|------|------|-------|
| 1 | 2.69 | 5.90  | 1.95 | 0.81 | 59.53 | 1.27 | 27.62| 0.43 | 100.21|
| 2 | 2.45 | 6.69  | 1.89 | 0.80 | 59.04 | 1.15 | 26.95| 1.16 | 100.11|
| 3 | 2.44 | 5.45  | 3.79 | 0.66 | 57.86 | 0.73 | 29.45| n.d. | 100.38|
| 4 | 3.36 | 6.41  | 2.15 | 0.70 | 61.01 | 0.75 | 25.85| 0.35 | 100.58|
| 5 | 3.29 | 6.31  | 2.38 | 0.67 | 58.98 | 0.84 | 27.53| 0.41 | 100.41|
| 6 | 4.74 | 6.33  | 2.24 | 0.59 | 59.54 | 1.03 | 25.93| 0.34 | 100.76|
| 7 | 2.46 | 6.12  | 2.34 | 0.82 | 58.05 | 0.89 | 28.58| 0.41 | 99.66 |
| 8 | 4.20 | 6.92  | 1.42 | 0.64 | 60.29 | 1.09 | 25.22| n.d. | 99.78 |
| 9 | 2.90 | 5.60  | 2.21 | 0.69 | 60.24 | 1.30 | 27.24| 0.52 | 100.71|
| 10| 4.68 | 5.72  | 1.34 | 0.82 | 61.64 | 1.18 | 24.27| n.d. | 99.63 |
| 11| 4.30 | 5.99  | 2.54 | 0.78 | 58.75 | 0.61 | 26.76| 0.46 | 100.21|
| 12| 2.32 | 4.81  | 1.92 | 0.85 | 60.90 | 0.95 | 27.17| 0.83 | 99.73 |
| 13| 2.72 | 4.92  | 1.46 | 0.69 | 61.79 | 1.14 | 27.14| 0.47 | 100.35|
| 14| 2.20 | 4.53  | 1.90 | 0.66 | 62.18 | 0.91 | 27.29| 0.54 | 100.21|
| 15| 2.44 | 5.13  | 3.84 | 0.76 | 57.66 | 0.64 | 29.07| n.d. | 99.56 |
| 16| 3.77 | 6.60  | 1.83 | 0.64 | 60.53 | 1.09 | 25.91| 0.47 | 100.83|
| 17| 1.73 | 6.12  | 3.58 | 0.73 | 59.40 | 0.53 | 27.23| 0.47 | 99.78 |
| 18| 4.70 | 5.93  | 1.99 | 0.80 | 61.21 | 1.16 | 24.56| n.d. | 100.35|
| 19| 3.88 | 5.09  | 1.84 | 0.74 | 60.99 | 1.43 | 25.51| n.d. | 99.48 |
| 20| 2.92 | 6.66  | 2.01 | 0.73 | 58.38 | 1.11 | 27.86| 0.44 | 100.12|
| 21| 5.77 | 6.90  | 1.67 | 0.75 | 60.18 | 0.79 | 23.75| n.d. | 99.81 |
| 22| 2.73 | 5.77  | 1.93 | 0.78 | 60.97 | 1.11 | 26.80| 0.48 | 100.57|
| 23| 3.15 | 6.49  | 2.39 | 0.72 | 59.41 | 0.81 | 26.71| 0.36 | 100.02|
| 24| 5.71 | 5.21  | 2.99 | 0.78 | 59.59 | 0.69 | 25.28| n.d. | 100.25|
| 25| 2.28 | 5.98  | 3.96 | 0.79 | 55.55 | 0.59 | 30.86| 0.37 | 100.39|
| 26| 3.45 | 6.86  | 2.97 | 0.79 | 57.18 | 0.64 | 26.91| 0.39 | 99.18 |
| 27| 3.06 | 6.45  | 2.57 | 0.71 | 59.49 | 1.00 | 25.78| 0.52 | 99.57 |
| 28| 3.25 | 6.81  | 1.92 | 0.81 | 58.84 | 1.28 | 26.99| 0.43 | 100.32|
| 29| 1.92 | 6.26  | 2.70 | 0.87 | 58.09 | 0.93 | 28.08| 0.61 | 99.47 |
| 30| 2.75 | 6.77  | 2.02 | 0.76 | 59.33 | 1.14 | 26.64| n.d. | 99.41 |
| 31| 4.15 | 6.62  | 1.37 | 0.71 | 60.67 | 1.22 | 24.96| 0.59 | 100.29|
| 32| 2.91 | 7.15  | 1.76 | 0.80 | 58.93 | 1.10 | 27.29| n.d. | 99.93 |
| 33| 2.01 | 5.87  | 2.24 | 0.80 | 58.28 | 0.88 | 30.01| n.d. | 100.09|
| 34| 5.23 | 6.38  | 1.83 | 0.74 | 60.30 | 0.78 | 25.41| 0.50 | 101.17|
| 35| 2.38 | 6.49  | 2.17 | 0.74 | 58.35 | 1.02 | 27.69| 0.96 | 99.79 |
| 36| 1.35 | 5.76  | 3.66 | 0.89 | 56.19 | 0.71 | 31.27| 0.72 | 100.54|
| 37| 3.61 | 6.04  | 2.71 | 0.78 | 58.86 | 0.76 | 27.51| n.d. | 100.27|
| 38| 3.21 | 6.53  | 2.20 | 0.78 | 58.85 | 1.04 | 27.14| 0.49 | 100.26|
| 39| 3.07 | 6.21  | 1.89 | 0.76 | 60.20 | 1.14 | 26.53| 0.51 | 100.31|
| 40| 1.56 | 5.35  | 4.07 | 0.61 | 55.87 | 0.72 | 31.08| n.d. | 99.26 |
| 41| 2.96 | 7.15  | 2.18 | 0.75 | 59.26 | 0.89 | 27.20| 0.43 | 100.82|
| 42| 2.23 | 5.96  | 3.71 | 0.77 | 56.42 | 0.63 | 29.40| n.d. | 99.13|
|   | 43 | 2.74  | 6.23  | 3.53  | 0.72  | 56.52 | 0.65  | 29.01 | 0.34  | 99.74  |
|---|----|-------|-------|-------|-------|-------|-------|-------|-------|---------|
|   | 44 | 2.14  | 5.92  | 3.66  | 0.80  | 58.68 | 0.58  | 27.47 | n.d.  | 99.27   |
|   | 45 | 2.61  | 6.10  | 2.40  | 0.67  | 59.49 | 1.07  | 27.44 | 1.05  | 100.82  |
|   | 46 | 3.25  | 6.32  | 2.39  | 0.75  | 59.02 | 1.23  | 26.39 | 0.50  | 99.85   |
|   | 47 | 2.08  | 6.09  | 2.11  | 0.66  | 59.54 | 0.85  | 28.79 | n.d.  | 100.12  |
|   | 48 | 3.04  | 5.51  | 2.88  | 0.79  | 59.55 | 0.73  | 28.08 | n.d.  | 100.58  |
|   | 49 | 2.65  | 6.54  | 1.79  | 0.74  | 60.40 | 1.08  | 27.21 | 0.45  | 100.85  |
|   | 50 | 3.10  | 5.57  | 3.31  | 0.69  | 58.10 | 0.79  | 27.82 | n.d.  | 99.39   |
|   | 51 | 3.16  | 5.97  | 2.61  | 0.64  | 58.56 | 1.06  | 27.29 | 0.42  | 99.71   |
|   | 52 | 3.09  | 6.69  | 2.13  | 0.71  | 58.41 | 0.99  | 27.31 | 0.45  | 99.80   |
|   | 53 | 2.72  | 6.05  | 2.42  | 0.73  | 58.62 | 0.79  | 28.28 | 0.40  | 100.03  |
|   | 54 | 2.93  | 5.44  | 1.70  | 0.68  | 61.38 | 1.08  | 25.84 | 0.49  | 99.54   |
|   | 55 | 5.36  | 6.12  | 1.95  | 0.59  | 59.01 | 0.80  | 25.89 | n.d.  | 99.73   |
|   | 56 | 2.90  | 6.39  | 2.37  | 0.69  | 59.89 | 0.84  | 26.81 | 0.41  | 100.31  |
|   | 57 | 2.25  | 5.41  | 2.04  | 0.74  | 60.32 | 0.67  | 29.00 | 0.45  | 100.87  |
|   | 58 | 2.74  | 5.81  | 1.59  | 0.75  | 60.20 | 0.90  | 27.68 | 0.47  | 100.14  |
|   | 59 | 5.04  | 5.50  | 2.22  | 0.62  | 59.62 | 1.12  | 25.35 | 0.41  | 99.87   |
|   | 60 | 3.10  | 6.42  | 2.23  | 0.67  | 59.72 | 1.15  | 26.57 | n.d.  | 99.86   |
|   | 61 | 2.46  | 6.24  | 2.49  | 0.82  | 58.22 | 0.86  | 28.13 | 0.45  | 99.67   |
|   | 62 | 0.86* | 5.78  | 2.01  | 0.79  | 57.20 | 1.07  | 27.72 | 3.61  | 99.04   |
|   | 63 | 0.78* | 5.32  | 3.77  | 0.78  | 54.88 | 1.17  | 29.38 | 3.38  | 99.47   |
|   | 64 | 0.65* | 6.01  | 3.98  | 0.65  | 53.85 | 1.41  | 28.91 | 4.34  | 99.80   |

*EC-outlier grain

**OtC-V 32-63 μm**

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-----|-------|------|-------|-------|-----|-----|-----|-------|
| 1  | 4.06 | 10.24 | 1.00 | 0.48  | 56.67 | 0.75 | 25.98 | n.d.  | 99.18  |
| 2  | 5.61 | 12.11 | 1.32 | 0.48  | 56.16 | 0.73 | 24.19 | n.d.  | 100.59 |
| 3  | 4.84 | 9.11  | 0.59 | 0.54  | 57.88 | 0.65 | 26.66 | n.d.  | 100.27 |
| 4  | 4.58 | 14.54 | 0.66 | 0.57  | 50.90 | n.d. | 28.34 | n.d.  | 99.60  |
| 5  | 4.14 | 14.14 | 2.83 | 0.45  | 49.72 | 0.87 | 27.37 | n.d.  | 99.53  |
| 6  | 4.58 | 14.54 | 0.66 | 0.57  | 50.90 | n.d. | 28.34 | n.d.  | 99.60  |
| 7  | 1.92 | 0.52  | 1.19 | 0.67  | 66.64 | 0.88 | 28.49 | n.d.  | 100.31 |
| 8  | 4.31 | 10.88 | 0.46 | 0.49  | 58.87 | 0.71 | 24.63 | n.d.  | 100.35 |
| 9  | 4.19 | 18.55 | 2.78 | 0.51  | 44.51 | 0.45 | 28.54 | n.d.  | 99.52  |
| 10 | 4.07 | 14.5  | 0.86 | 0.75  | 49.51 | n.d. | 29.77 | n.d.  | 99.45  |
| 11 | 5.85 | 7.58  | 0.69 | 0.79  | 61.58 | 0.73 | 23.23 | n.d.  | 100.45 |
| 12 | 4.10 | 8.26  | 0.79 | 0.80  | 60.36 | 0.78 | 26.15 | n.d.  | 101.24 |
| 13 | 5.49 | 7.74  | 0.72 | 0.67  | 60.95 | 0.88 | 23.86 | n.d.  | 100.32 |
| 14 | 4.75 | 4.41  | 1.06 | 0.65  | 63.50 | 1.09 | 24.23 | 0.54  | 100.22 |
| 15 | 3.83 | 7.46  | 1.09 | 0.77  | 58.89 | 0.60 | 26.94 | n.d.  | 99.59  |
| 16 | 3.09 | 10.4  | 1.00 | 0.61  | 57.24 | 0.64 | 27.40 | n.d.  | 100.37 |
| 17 | 0.42 | 5.93  | 2.91 | 0.69  | 56.30 | 1.27 | 27.23 | 6.08  | 100.83 |
| 18 | n.d. | 6.08  | 3.46 | 0.71  | 53.34 | 1.32 | 24.07 | 10.77 | 99.74  |
|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO   | ZnO   | Total |
|---|------|-------|-------|-------|-------|------|-------|-------|-------|
| 1 | 12.1 | 22.71 | 0.85  | n.d.  | 36.26 | 0.31 | 27.22 | n.d.  | 99.46 |
| 2 | 10.64| 20.19 | 0.90  | n.d.  | 35.66 | n.d. | 32.02 | n.d.  | 99.42 |
| 3 | 1.37 | 38.93 | 3.23  | n.d.  | 50.42 | n.d. | 5.06  | n.d.  | 99.03 |
| 4 | 9.93 | 12.01 | 2.68  | 0.39  | 43.38 | 0.44 | 31.32 | n.d.  | 100.15|
| 5 | 6.69 | 13.06 | 1.36  | 0.27  | 45.97 | n.d. | 31.53 | n.d.  | 98.88 |
| 6 | 10.1 | 19.31 | 1.91  | 0.34  | 33.89 | n.d. | 34.32 | n.d.  | 99.87 |
| 7 | 7.54 | 17.39 | 3.80  | 0.33  | 36.14 | n.d. | 33.95 | n.d.  | 99.15 |
| 8 | 8.94 | 7.99  | 0.53  | n.d.  | 56.59 | 0.54 | 25.24 | n.d.  | 99.82 |
| 9 | 11.3 | 13.72 | n.d.  | n.d.  | 54.68 | 0.58 | 18.97 | n.d.  | 99.26 |
| 10| 6.42 | 25.39 | 0.29  | 0.42  | 31.69 | 0.35 | 35.17 | 0.41  | 100.13|
| 11| 7.84 | 9.92  | n.d.  | n.d.  | 61.37 | 0.55 | 18.65 | 0.78  | 99.11 |
| 12| 7.55 | 24.62 | 0.64  | n.d.  | 34.58 | 0.49 | 31.03 | n.d.  | 98.91 |
| 13| 11.77| 24.14 | 0.83  | n.d.  | 33.20 | 0.40 | 29.35 | n.d.  | 99.70 |
| 14| n.d. | 16.14 | 8.64  | 0.36  | 26.18 | 0.65 | 30.73 | 17.22 | 99.92 |
| 15| 4.02 | 10.00 | 0.31  | n.d.  | 54.97 | 0.66 | 28.23 | 1.13  | 99.32 |
| 16| 3.06 | 8.58  | 0.73  | n.d.  | 51.65 | 2.48 | 33.65 | 0.47  | 100.63|
| 17| n.d. | 3.89  | 0.88  | 2.14  | 32.34 | 1.39 | 56.83 | 1.62  | 99.09 |
| 18| 10.82| 15.92 | 2.05  | n.d.  | 43.14 | n.d. | 28.19 | n.d.  | 100.12|
| 19| 0.57 | 14.50 | 0.66  | n.d.  | 45.49 | 0.68 | 35.43 | 2.91  | 100.24|
| 20| 2.49 | 13.45 | n.d.  | n.d.  | 50.40 | n.d. | 30.98 | 1.36  | 98.68 |
| 21| 7.81 | 13.92 | 2.01  | 0.32  | 41.31 | n.d. | 34.06 | n.d.  | 99.43 |
| 22| 11.72| 20.17 | n.d.  | n.d.  | 47.47 | n.d. | 20.54 | n.d.  | 99.89 |
| 23| 2.29 | 7.39  | 0.65  | 0.48  | 26.14 | n.d. | 62.58 | n.d.  | 99.54 |
| 24| 13.6 | 27.08 | 0.93  | n.d.  | 34.15 | n.d. | 23.89 | n.d.  | 99.65 |
| 25| 2.61 | 0.41  | 1.05  | 0.55  | 50.88 | 0.82 | 42.49 | 0.47  | 99.28 |
| 26| 8.02 | 9.04  | 2.53  | 0.18  | 47.44 | n.d. | 32.18 | n.d.  | 99.38 |
| 27| 10.54| 17.46 | 1.82  | 0.36  | 36.45 | 0.39 | 32.03 | n.d.  | 99.05 |
| 28| 3.96 | 8.19  | 0.71  | 0.56  | 38.66 | n.d. | 47.88 | 0.45  | 100.4 |
| 29| 9.27 | 14.00 | 0.51  | n.d.  | 50.53 | n.d. | 24.39 | n.d.  | 98.70 |
| 30| 11.74| 17.53 | 2.24  | 0.37  | 41.74 | n.d. | 26.00 | n.d.  | 99.61 |
| 31| 6.47 | 15.22 | 0.81  | n.d.  | 53.15 | n.d. | 22.97 | 0.28  | 98.90 |
| 32| 11.28| 15.43 | 0.43  | n.d.  | 49.35 | n.d. | 22.57 | n.d.  | 99.05 |
| 33| 5.89 | 9.04  | n.d.  | n.d.  | 59.04 | 0.56 | 24.33 | 0.55  | 99.40 |
| 34| 9.18 | 28.13 | 1.13  | 0.31  | 27.82 | n.d. | 32.45 | n.d.  | 99.01 |
| 35| 7.54 | 15.50 | n.d.  | n.d.  | 52.54 | 0.99 | 22.22 | 0.65  | 99.44 |
| 36| 7.64 | 9.65  | 0.30  | n.d.  | 55.39 | 0.55 | 25.71 | n.d.  | 99.24 |
| 37| 12.87| 23.91 | 1.01  | n.d.  | 36.84 | n.d. | 24.20 | n.d.  | 98.83 |
| 38| 7.57 | 17.36 | 3.06  | n.d.  | 32.80 | 0.43 | 37.47 | n.d.  | 98.69 |

**OtC 32-63 μm**
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 39 | 8.26 | 15.48 | 3.65 | 0.34 | 32.45 | n.d. | 39.21 | n.d. | 99.39 |
| 40 | 12.9 | 11.83 | 0.67 | n.d. | 53.65 | 0.55 | 19.94 | n.d. | 99.55 |
| 41 | 12.7 | 25.94 | 1.09 | 0.35 | 38.41 | n.d. | 21.58 | n.d. | 100.08 |
| 42 | 10.24 | 13.82 | 0.28 | n.d. | 54.66 | n.d. | 20.82 | n.d. | 99.82 |
| 43 | 10.67 | 15.49 | 0.47 | n.d. | 48.57 | n.d. | 24.62 | n.d. | 99.82 |
| 44 | 10.93 | 15.72 | 0.22 | n.d. | 51.34 | n.d. | 21.45 | n.d. | 99.67 |
| 45 | 7.53 | 9.34 | n.d. | 0.26 | 59.98 | 8.58 | 13.46 | 0.72 | 99.88 |
| 46 | 9.86 | 16.57 | 2.44 | 0.30 | 37.02 | n.d. | 33.88 | n.d. | 100.07 |
| 47 | 9.94 | 15.41 | 2.34 | 0.31 | 38.74 | 0.42 | 33.29 | n.d. | 100.45 |
| 48 | 13.36 | 32.14 | 0.50 | n.d. | 30.97 | n.d. | 22.23 | n.d. | 99.20 |
| 49 | 11.01 | 21.01 | 1.63 | 0.40 | 34.79 | n.d. | 32.35 | n.d. | 101.20 |
| 50 | 3.53 | 11.93 | 1.77 | 0.44 | 37.39 | 0.76 | 43.31 | 0.40 | 99.53 |
| 51 | 12.76 | 26.51 | 0.99 | n.d. | 32.65 | n.d. | 26.19 | n.d. | 99.10 |
| 52 | 8.97 | 15.48 | 2.78 | n.d. | 36.67 | n.d. | 35.82 | n.d. | 99.72 |
| 53 | 9.40 | 16.69 | 1.90 | 0.26 | 37.50 | n.d. | 32.98 | n.d. | 98.73 |
| 54 | 14.27 | 24.70 | 0.57 | n.d. | 40.20 | n.d. | 19.72 | n.d. | 99.47 |
| 55 | 12.24 | 25.09 | 1.89 | 0.29 | 30.86 | 0.44 | 29.18 | n.d. | 99.99 |
| 56 | 7.82 | 21.99 | 0.92 | 0.33 | 41.11 | n.d. | 26.78 | n.d. | 98.95 |
| 57 | 9.36 | 12.73 | 3.56 | n.d. | 40.63 | n.d. | 32.73 | n.d. | 99.02 |
| 58 | 9.80 | 18.88 | 0.85 | n.d. | 40.68 | n.d. | 28.83 | n.d. | 99.04 |
| 59 | 12.44 | 22.09 | 1.37 | 0.22 | 33.97 | n.d. | 30.46 | n.d. | 100.55 |
| 60 | 13.72 | 22.65 | 1.20 | n.d. | 39.16 | n.d. | 23.49 | n.d. | 100.2 |
| 61 | 2.10 | 18.22 | 1.78 | 0.52 | 40.02 | 1.47 | 34.23 | 1.48 | 99.81 |
| 62 | 12.75 | 25.18 | 0.71 | n.d. | 34.95 | n.d. | 26.17 | n.d. | 99.76 |
| 63 | 5.00 | 12.16 | 0.87 | n.d. | 36.84 | 0.65 | 44.50 | 0.53 | 100.55 |
| 64 | 13.23 | 27.92 | 0.80 | n.d. | 30.44 | n.d. | 27.43 | n.d. | 99.81 |
| 65 | 10.21 | 20.16 | 0.93 | n.d. | 39.24 | 0.41 | 28.74 | n.d. | 99.69 |
| 66 | 5.08 | 6.88 | 2.98 | 0.45 | 30.95 | n.d. | 52.83 | n.d. | 99.18 |
| 67 | 6.92 | 16.16 | 3.14 | 0.38 | 34.57 | 0.59 | 37.66 | n.d. | 99.43 |
| 68 | 11.55 | 23.76 | 0.88 | n.d. | 33.44 | 0.43 | 29.11 | n.d. | 99.18 |
| 69 | 12.64 | 17.47 | 0.26 | n.d. | 54.72 | n.d. | 15.57 | n.d. | 100.66 |
| 70 | 13.66 | 23.17 | 2.57 | n.d. | 36.94 | n.d. | 22.84 | n.d. | 99.19 |
| 71 | 8.34 | 13.17 | 2.41 | 0.44 | 41.16 | n.d. | 33.72 | n.d. | 99.24 |
| 72 | 7.64 | 16.09 | 0.55 | n.d. | 48.59 | n.d. | 26.56 | 1.03 | 100.45 |
| 73 | 6.38 | 9.96 | n.d. | 0.17 | 64.78 | 0.86 | 16.97 | 1.28 | 100.40 |
| 74 | 9.93 | 17.68 | 2.97 | 0.46 | 38.56 | n.d. | 30.25 | n.d. | 99.86 |
| 75 | 0.37 | 6.52 | 1.38 | 0.64 | 39.83 | 1.71 | 49.03 | 1.08 | 100.56 |
| 76 | 6.45 | 14.95 | n.d. | 0.33 | 56.51 | 0.84 | 19.90 | 0.89 | 99.88 |
| 77 | 5.41 | 11.37 | n.d. | 0.27 | 61.23 | 0.56 | 21.39 | 0.43 | 100.66 |
| 78 | 10.8 | 22.72 | 0.83 | n.d. | 38.78 | n.d. | 26.58 | n.d. | 99.71 |
| 79 | 11.91 | 26.65 | 0.71 | n.d. | 34.75 | n.d. | 25.59 | n.d. | 99.60 |
| 80 | 2.15 | 13.15 | 0.75 | n.d. | 42.89 | 0.95 | 40.56 | 0.39 | 100.83 |
| 81 | 5.47 | 12.46 | 0.52 | n.d. | 49.71 | 0.74 | 30.83 | 0.89 | 100.61 |
| 82 | 13.27 | 26.75 | 0.74 | n.d. | 35.08 | n.d. | 23.22 | n.d. | 99.06 |
| 83 | 13.29 | 25.16 | 0.53 | n.d. | 38.00 | n.d. | 22.70 | n.d. | 99.69 |
|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 84  | 10.90 | 19.32 | 2.58 | 0.35 | 34.88 | n.d. | 32.26 | n.d. | 100.30 |
| 85  | 6.46  | 13.00 | 1.02 | n.d. | 43.33 | 0.51 | 36.26 | n.d. | 100.59 |
| 86  | 11.29 | 20.63 | 1.35 | n.d. | 37.20 | 0.30 | 28.62 | n.d. | 99.39  |
| 87  | 0.62  | 12.56 | n.d. | n.d. | 49.98 | 0.88 | 32.85 | 3.06 | 99.94  |
| 88  | 13.91 | 25.02 | 0.72 | n.d. | 37.73 | n.d. | 22.45 | n.d. | 99.83  |
| 89  | 0.52  | 7.70  | 0.20 | n.d. | 57.87 | 1.65 | 30.03 | 1.63 | 99.61  |
| 90  | 13.66 | 28.85 | 0.98 | 0.25 | 32.22 | n.d. | 23.88 | n.d. | 99.85  |
| 91  | 15.16 | 35.46 | 0.65 | n.d. | 27.88 | 0.38 | 19.80 | n.d. | 99.32  |
| 92  | 6.92  | 26.64 | 1.51 | 0.25 | 29.01 | 0.70 | 34.97 | n.d. | 99.99  |
| 93  | 9.91  | 20.29 | 1.33 | 0.40 | 32.07 | n.d. | 36.20 | n.d. | 100.20 |
| 94  | 10.72 | 18.80 | 1.93 | 0.39 | 36.05 | n.d. | 32.12 | n.d. | 100.00 |
| 95  | 8.26  | 20.68 | 0.60 | n.d. | 34.84 | 0.47 | 34.42 | n.d. | 99.28  |
| 96  | 13.51 | 13.85 | 1.18 | n.d. | 51.53 | n.d. | 19.75 | n.d. | 99.83  |
| 97  | 13.29 | 22.84 | 0.67 | n.d. | 41.11 | n.d. | 21.97 | n.d. | 99.88  |
| 98  | 14.88 | 25.31 | 0.59 | n.d. | 40.56 | n.d. | 19.07 | n.d. | 100.41 |
| 99  | 6.70  | 13.46 | 1.43 | n.d. | 39.11 | 0.60 | 38.36 | n.d. | 99.65  |
| 100 | 3.24  | 11.59 | 3.55 | n.d. | 32.94 | 0.61 | 47.20 | n.d. | 99.14  |
| 101 | 9.45  | 12.48 | 0.82 | n.d. | 47.70 | 0.50 | 28.85 | n.d. | 99.81  |
| 102 | 10.21 | 19.20 | 2.02 | 0.39 | 38.10 | n.d. | 29.89 | n.d. | 99.82  |
| 103 | 1.12  | 2.10  | 3.62 | 0.68 | 36.77 | 0.72 | 54.94 | 0.52 | 100.47 |
| 104 | 13.35 | 21.18 | 0.46 | n.d. | 41.54 | 0.52 | 24.27 | n.d. | 101.31 |
| 105 | 6.40  | 23.76 | 0.32 | n.d. | 35.67 | 0.81 | 33.78 | 0.38 | 101.11 |
| 106 | 13.61 | 26.38 | 0.64 | n.d. | 35.91 | n.d. | 22.78 | n.d. | 99.32  |
| 107 | 12.35 | 24.86 | 0.99 | n.d. | 36.26 | 0.32 | 25.32 | n.d. | 100.10 |
| 108 | 10.73 | 24.81 | 1.01 | 0.24 | 34.20 | 0.38 | 28.04 | n.d. | 99.42  |
| 109 | 5.19  | 3.40  | n.d. | n.d. | 65.59 | 8.73 | 1.70  | 15.03 | 99.64  |
| 110 | 12.47 | 23.23 | 0.55 | 0.31 | 44.33 | 1.08 | 18.76 | 0.32 | 101.05 |
| 111 | 4.74  | 12.97 | n.d. | 0.21 | 59.33 | 0.52 | 22.09 | n.d. | 99.86  |
| 112 | 11.68 | 22.47 | 1.50 | 0.32 | 34.04 | 0.50 | 29.54 | n.d. | 100.05 |
| 113 | 12.09 | 21.18 | 0.35 | 0.26 | 43.51 | n.d. | 22.72 | n.d. | 100.11 |
| 114 | 12.55 | 17.49 | 0.76 | n.d. | 45.03 | 0.36 | 23.85 | n.d. | 100.04 |
| 115 | 13.53 | 27.43 | 0.66 | n.d. | 34.07 | 0.40 | 23.27 | n.d. | 99.35  |
| 116 | 10.57 | 23.40 | n.d. | n.d. | 50.34 | 15.42 | 0.62 | 100.35 |
| 117 | 10.22 | 18.08 | 1.47 | n.d. | 39.35 | 0.43 | 30.26 | n.d. | 99.82  |
| 118 | 9.15  | 12.25 | 0.45 | n.d. | 53.61 | n.d. | 25.27 | n.d. | 100.73 |
| 119 | 7.84  | 10.96 | 0.38 | n.d. | 60.41 | 0.77 | 18.37 | 1.20 | 99.93  |
| 120 | 5.36  | 23.92 | 0.50 | 0.33 | 36.24 | 0.59 | 32.54 | 0.93 | 100.43 |
| 121 | 20.86 | 14.74 | 0.55 | n.d. | 51.28 | 0.59 | 12.78 | n.d. | 100.80 |
| 122 | 0.28  | 5.94  | 2.78 | 2.12 | 47.92 | 1.49 | 38.08 | 2.03 | 100.66 |
| 123 | 14.53 | 29.62 | 0.95 | n.d. | 33.05 | n.d. | 21.69 | n.d. | 99.84  |
| 124 | 0.87  | 12.76 | 0.32 | n.d. | 49.88 | 2.53 | 27.98 | 5.47 | 99.82  |
| 125 | 5.12  | 11.92 | 3.06 | n.d. | 53.49 | 0.63 | 24.24 | 0.83 | 99.28  |
| 126 | 11.4  | 23.23 | 0.76 | n.d. | 38.78 | 0.52 | 25.90 | n.d. | 100.59 |
| 127 | 8.32  | 17.46 | 1.74 | 0.48 | 32.39 | n.d. | 40.17 | n.d. | 100.56 |
| 128 | 11.61 | 24.38 | 0.42 | n.d. | 38.97 | n.d. | 24.95 | n.d. | 100.33 |
|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 129 | 9.61 | 19.83 | 1.48 | n.d. | 38.71 | 0.53 | 30.23 | n.d. | 100.39 |
| 130 | 11.02 | 17.98 | 1.14 | n.d. | 42.94 | 0.49 | 27.16 | n.d. | 100.73 |
| 131 | 11.28 | 21.48 | 1.03 | n.d. | 43.02 | n.d. | 22.46 | n.d. | 99.27 |
| 132 | 10.24 | 13.88 | 0.80 | n.d. | 47.16 | 0.53 | 27.97 | n.d. | 100.58 |
| 133 | 5.65 | 15.95 | 0.55 | n.d. | 50.75 | n.d. | 27.34 | n.d. | 100.24 |
| 134 | 5.95 | 14.25 | 0.39 | n.d. | 52.60 | 3.33 | 10.51 | 13.56 | 100.60 |
| 135 | 2.77 | 18.17 | 0.64 | n.d. | 35.72 | 0.86 | 41.99 | 0.57 | 100.73 |
| 136 | 8.50 | 11.37 | 0.34 | n.d. | 57.16 | n.d. | 22.76 | n.d. | 100.12 |
| 137 | 11.45 | 26.81 | 0.83 | n.d. | 30.70 | 0.51 | 29.78 | n.d. | 100.08 |
| 138 | 15.86 | 25.17 | 0.60 | n.d. | 41.00 | n.d. | 17.98 | n.d. | 100.61 |
| 139 | 2.50 | 8.49 | 0.45 | n.d. | 51.17 | 1.36 | 30.65 | 0.85 | 100.56 |
| 140 | 0.53 | 19.72 | 3.93 | 0.55 | 32.27 | 0.49 | 32.36 | n.d. | 100.57 |
| 141 | 12.41 | 22.8 | 0.78 | n.d. | 37.12 | 0.38 | 26.05 | n.d. | 99.53 |
| 142 | 7.66 | 15.82 | 0.77 | n.d. | 45.49 | 0.57 | 29.58 | n.d. | 99.87 |
| 143 | 13.72 | 24.57 | 0.73 | n.d. | 38.33 | n.d. | 23.33 | n.d. | 100.67 |
| 144 | 9.78 | 22.67 | 1.10 | 0.30 | 31.63 | 0.48 | 34.19 | n.d. | 100.15 |
| 145 | 5.92 | 17.18 | 0.32 | n.d. | 52.15 | 0.60 | 23.48 | 0.35 | 100.00 |
| 146 | 7.35 | 13.52 | 0.29 | n.d. | 55.12 | n.d. | 23.11 | n.d. | 99.39 |
| 147 | 5.99 | 17.37 | 0.26 | 0.34 | 42.64 | n.d. | 32.55 | 0.46 | 99.61 |
| 148 | 4.87 | 10.60 | n.d. | 0.30 | 58.91 | 1.24 | 18.16 | 6.72 | 100.80 |
| 149 | 10.72 | 18.66 | 3.13 | 0.34 | 33.19 | n.d. | 33.48 | n.d. | 99.52 |
| 150 | 0.30 | 9.88 | 0.49 | 0.82 | 38.32 | 0.69 | 48.77 | 0.92 | 100.18 |
| 151 | 11.58 | 21.06 | 0.95 | n.d. | 40.35 | n.d. | 25.21 | n.d. | 99.14 |
| 152 | 12.25 | 21.21 | 0.75 | n.d. | 41.61 | n.d. | 23.54 | n.d. | 99.37 |
| 153 | 9.46 | 4.09 | n.d. | n.d. | 66.76 | n.d. | 18.98 | 0.64 | 99.92 |
| 154 | 11.28 | 26.44 | 0.93 | n.d. | 33.61 | n.d. | 26.80 | n.d. | 99.06 |
| 155 | 2.83 | 15.57 | 1.41 | 0.21 | 32.47 | 0.60 | 45.59 | 0.99 | 99.67 |
| 156 | 2.63 | 11.80 | 0.68 | n.d. | 44.76 | n.d. | 38.28 | 1.27 | 99.41 |
| 157 | 1.11 | 6.49 | 0.71 | 0.81 | 36.45 | n.d. | 54.27 | 0.63 | 100.47 |
| 158 | 7.53 | 15.82 | 0.67 | n.d. | 47.59 | n.d. | 27.74 | n.d. | 99.35 |
| 159 | 10.83 | 16.18 | 0.76 | n.d. | 47.27 | n.d. | 24.19 | n.d. | 99.24 |
| 160 | 11.74 | 23.53 | 1.40 | n.d. | 33.66 | 0.40 | 29.17 | n.d. | 99.91 |
| 161 | 12.68 | 31.22 | 0.70 | n.d. | 30.37 | n.d. | 24.51 | n.d. | 99.49 |
| 162 | 14.20 | 28.91 | 0.85 | n.d. | 31.86 | 0.44 | 23.12 | n.d. | 99.38 |
| 163 | 9.93 | 19.59 | 1.36 | 0.22 | 38.04 | 0.55 | 29.80 | n.d. | 99.49 |
| 164 | 12.12 | 21.50 | 1.11 | 0.23 | 37.77 | n.d. | 27.91 | n.d. | 100.64 |
| 165 | 6.13 | 12.71 | 2.08 | 0.31 | 50.26 | n.d. | 27.25 | n.d. | 98.73 |
| 166 | 2.12 | 4.37 | 0.23 | n.d. | 48.56 | 0.98 | 43.37 | 0.75 | 100.38 |
| 167 | 14.09 | 31.06 | 0.74 | n.d. | 32.28 | n.d. | 22.32 | n.d. | 100.50 |
| 168 | 11.48 | 23.24 | 1.03 | 0.19 | 40.10 | n.d. | 23.59 | n.d. | 99.63 |
| 169 | 14.28 | 27.92 | 0.54 | n.d. | 35.72 | n.d. | 21.37 | n.d. | 99.82 |
| 170 | 12.91 | 29.16 | 1.11 | n.d. | 30.70 | n.d. | 25.78 | n.d. | 99.67 |
| 171 | 12.82 | 19.14 | 1.20 | n.d. | 40.48 | n.d. | 25.78 | n.d. | 99.43 |
| 172 | 8.36 | 16.96 | 4.23 | 0.29 | 32.11 | n.d. | 38.08 | n.d. | 100.03 |
|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 174 | 10.08 | 18.65 | 2.96 | 0.31 | 30.75 | 0.44 | 36.79 | n.d. | 99.97 |
| 175 | 2.72  | 12.93 | 0.73 | 0.32 | 51.60 | n.d. | 31.70 | 0.38 | 100.39 |
| 176 | 2.36  | 9.20  | 0.60 | 0.27 | 43.53 | n.d. | 43.51 | 0.35 | 99.81 |
| 177 | 6.40  | 10.04 | 3.95 | 0.38 | 36.79 | 0.58 | 42.26 | n.d. | 100.38 |
| 178 | 12.24 | 24.35 | 1.33 | n.d. | 33.88 | n.d. | 27.82 | n.d. | 99.62 |
| 179 | 3.47  | 9.92  | 1.16 | n.d. | 57.67 | 0.93 | 27.32 | 0.41 | 100.88 |
| 180 | 7.33  | 9.06  | 0.73 | n.d. | 58.34 | n.d. | 23.53 | n.d. | 98.98 |
| 181 | 8.70  | 20.14 | 0.41 | n.d. | 39.08 | 0.44 | 30.21 | 1.38 | 100.36 |
| 182 | n.d.  | 6.89  | 0.49 | 0.32 | 38.24 | 1.21 | 50.82 | 1.44 | 99.41 |
| 183 | 11.42 | 28.50 | 0.83 | n.d. | 31.15 | 0.42 | 27.40 | n.d. | 99.73 |
| 184 | 10.94 | 18.71 | 2.27 | n.d. | 33.16 | n.d. | 35.16 | n.d. | 100.24 |
| 185 | 7.09  | 32.18 | 0.33 | 0.39 | 30.06 | 0.37 | 29.68 | n.d. | 100.09 |
| 186 | 2.36  | 11.49 | 0.51 | 0.25 | 46.93 | 0.66 | 36.46 | 0.80 | 99.45 |
| 187 | 10.42 | 20.09 | 1.12 | 0.26 | 37.55 | n.d. | 30.76 | n.d. | 100.20 |
| 188 | n.d.  | 7.03  | 0.34 | n.d. | 57.38 | 0.65 | 34.28 | 1.24 | 100.92 |
| 189 | 6.24  | 20.83 | 0.51 | 0.28 | 42.31 | n.d. | 28.66 | n.d. | 98.81 |
| 190 | 9.45  | 19.25 | 1.37 | 0.22 | 37.74 | 0.46 | 30.76 | n.d. | 99.25 |
| 191 | 9.10  | 25.71 | 0.73 | n.d. | 33.18 | 0.44 | 31.36 | n.d. | 100.51 |
| 192 | 5.41  | 4.56  | n.d. | n.d. | 66.34 | 7.92 | 7.90  | 7.48 | 99.60 |
| 193 | 8.31  | 28.99 | n.d. | n.d. | 34.98 | 0.31 | 27.57 | 0.29 | 100.46 |
| 194 | 9.11  | 16.86 | 2.55 | 0.38 | 30.16 | n.d. | 41.33 | n.d. | 100.38 |
| 195 | 15.18 | 26.75 | 0.42 | n.d. | 43.58 | n.d. | 13.66 | n.d. | 99.59 |
| 196 | 9.49  | 22.82 | 1.25 | 0.32 | 33.25 | 0.45 | 33.21 | n.d. | 100.80 |
| 197 | 14.51 | 27.41 | 0.58 | n.d. | 37.25 | n.d. | 20.43 | n.d. | 100.17 |
| 198 | 7.71  | 14.22 | n.d. | 0.28 | 61.04 | 0.52 | 16.89 | n.d. | 100.66 |
| 199 | 13.98 | 30.36 | 0.72 | 0.23 | 32.83 | n.d. | 21.57 | n.d. | 99.70 |
| 200 | 11.31 | 25.09 | 0.28 | n.d. | 42.67 | n.d. | 20.09 | 0.43 | 99.88 |
| 201 | 13.37 | 27.70 | 0.99 | n.d. | 34.13 | n.d. | 24.25 | n.d. | 100.44 |
| 202 | 12.03 | 23.83 | 0.78 | n.d. | 34.68 | n.d. | 28.82 | n.d. | 100.15 |
| 203 | 3.92  | 5.79  | n.d. | n.d. | 63.25 | 5.70 | 9.08  | 11.93 | 99.67 |
| 204 | 11.41 | 17.44 | 3.66 | 0.36 | 35.98 | n.d. | 31.35 | n.d. | 100.20 |
| 205 | 8.66  | 17.81 | 2.08 | n.d. | 36.42 | 0.41 | 35.18 | n.d. | 100.56 |
| 206 | 12.35 | 21.52 | n.d. | 0.24 | 44.24 | n.d. | 21.67 | n.d. | 100.01 |
| 207 | 13.21 | 24.57 | 1.09 | n.d. | 36.51 | n.d. | 24.24 | n.d. | 99.61 |
| 208 | 9.27  | 15.97 | 2.22 | 0.27 | 34.88 | n.d. | 37.35 | n.d. | 99.95 |
| 209 | 11.92 | 20.92 | 0.33 | n.d. | 49.44 | n.d. | 17.96 | n.d. | 100.56 |
| 210 | 12.38 | 25.89 | 0.50 | 0.27 | 38.32 | n.d. | 22.28 | n.d. | 99.63 |
| 211 | 8.55  | 28.14 | 1.03 | n.d. | 30.18 | n.d. | 31.85 | n.d. | 99.75 |
| 212 | 14.42 | 15.67 | 0.30 | n.d. | 53.86 | n.d. | 15.66 | n.d. | 99.91 |
| 213 | 8.79  | 18.73 | n.d. | n.d. | 52.25 | n.d. | 20.17 | n.d. | 99.94 |
| 214 | 12.35 | 30.71 | 0.77 | n.d. | 30.90 | n.d. | 25.43 | n.d. | 100.17 |
| 215 | 15.17 | 26.48 | 1.90 | n.d. | 36.80 | n.d. | 20.50 | n.d. | 100.85 |
| 216 | 12.48 | 23.16 | 0.39 | n.d. | 41.31 | n.d. | 22.40 | n.d. | 99.74 |
| 217 | 5.06  | 17.23 | n.d. | 0.33 | 46.96 | 1.09 | 29.37 | 0.36 | 100.40 |
| 218 | 6.65  | 9.78  | 2.48 | n.d. | 52.64 | n.d. | 28.12 | n.d. | 99.67 |
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 219 | 12.18 | 28.32 | 1.08 | n.d. | 31.40 | n.d. | 27.14 | n.d. | 100.13 |
| 220 | 13.27 | 28.22 | 0.80 | n.d. | 31.40 | n.d. | 25.74 | n.d. | 99.44  |
| 221 | 10.86 | 19.05 | 1.72 | 0.35 | 39.54 | n.d. | 28.25 | n.d. | 99.78  |
| 222 | 8.37  | 11.49 | 1.51 | 0.25 | 46.46 | 0.48 | 31.25 | n.d. | 99.81  |
| 223 | 13.27 | 27.64 | 0.95 | n.d. | 31.94 | 0.39 | 24.81 | n.d. | 99.00  |
| 224 | 9.49  | 9.41  | n.d. | n.d. | 60.09 | n.d. | 20.27 | n.d. | 99.26  |
| 225 | 9.52  | 10.62 | n.d. | n.d. | 62.72 | n.d. | 16.52 | n.d. | 99.38  |
| 226 | 9.52  | 15.21 | 0.38 | n.d. | 51.05 | n.d. | 24.28 | n.d. | 100.45 |
| 227 | 14.09 | 27.35 | 0.57 | n.d. | 35.40 | n.d. | 22.19 | n.d. | 99.60  |
| 228 | 4.84  | 9.88  | 0.42 | n.d. | 51.96 | 4.57 | 7.18  | 20.69 | 99.54  |
| 229 | 3.38  | 15.21 | 2.21 | 0.45 | 36.31 | 0.55 | 42.24 | n.d. | 100.59 |
| 230 | 9.79  | 17.86 | 0.50 | 0.29 | 50.65 | n.d. | 19.92 | n.d. | 99.01  |
| 231 | 10.49 | 12.41 | 0.29 | n.d. | 57.10 | n.d. | 19.25 | n.d. | 99.55  |
| 232 | 10.90 | 22.00 | 1.77 | n.d. | 34.26 | n.d. | 30.99 | n.d. | 99.92  |
| 233 | 10.97 | 19.94 | 1.89 | 0.34 | 34.05 | n.d. | 33.37 | n.d. | 100.58 |
| 234 | 9.48  | 16.27 | 0.28 | n.d. | 55.35 | 0.51 | 18.73 | 0.27 | 100.9  |
| 235 | 10.25 | 12.28 | 0.42 | n.d. | 54.41 | n.d. | 22.35 | n.d. | 99.70  |
| 236 | 12.92 | 27.74 | 0.75 | n.d. | 31.33 | n.d. | 27.78 | n.d. | 100.51 |
| 237 | 13.73 | 27.85 | n.d. | n.d. | 34.93 | n.d. | 23.93 | n.d. | 100.43 |
| 238 | 11.00 | 24.35 | 1.08 | n.d. | 37.97 | n.d. | 24.45 | 0.89 | 99.74  |
| 239 | 0.80  | 19.64 | 1.49 | 0.38 | 29.53 | 1.23 | 42.60 | 5.01 | 100.68 |
| 240 | 3.59  | 8.52  | n.d. | 0.34 | 51.11 | 0.68 | 36.66 | 0.41 | 101.31 |
| 241 | 14.28 | 30.98 | 0.62 | n.d. | 30.98 | 0.41 | 22.69 | n.d. | 99.95  |
| 242 | 13.20 | 26.91 | 0.90 | n.d. | 34.02 | n.d. | 23.93 | n.d. | 98.94  |
| 243 | 9.66  | 19.15 | 0.73 | 0.24 | 45.00 | 1.27 | 22.92 | 1.21 | 100.19 |
| 244 | 4.95  | 13.66 | n.d. | 0.21 | 47.67 | 0.54 | 31.84 | 0.59 | 99.47  |
| 245 | 12.33 | 27.46 | 0.52 | n.d. | 31.95 | n.d. | 27.60 | n.d. | 99.87  |
| 246 | 4.97  | 6.33  | n.d. | n.d. | 66.64 | 1.38 | 18.19 | 2.64 | 100.15 |
| 247 | 12.43 | 24.71 | 0.81 | n.d. | 34.26 | n.d. | 27.66 | n.d. | 99.87  |
| 248 | 9.77  | 29.26 | n.d. | 0.39 | 39.71 | n.d. | 21.03 | 0.31 | 100.46 |
| 249 | 0.57  | 9.35  | 0.41 | n.d. | 52.57 | 1.07 | 33.48 | 2.48 | 99.92  |
| 250 | 5.87  | 14.51 | n.d. | n.d. | 59.24 | 0.72 | 19.38 | 0.37 | 100.10 |
| 251 | 10.03 | 20.86 | 1.44 | 0.32 | 34.13 | n.d. | 33.39 | n.d. | 100.18 |
| 252 | 11.39 | 26.13 | 1.02 | n.d. | 34.84 | n.d. | 26.76 | n.d. | 100.14 |
| 253 | 6.57  | 11.24 | n.d. | 0.30 | 57.44 | n.d. | 24.02 | 0.43 | 99.99  |
| 254 | 2.50  | 12.76 | 1.59 | 0.39 | 37.69 | 1.90 | 43.21 | 0.38 | 100.43 |
| 255 | 13.15 | 13.24 | 0.27 | 0.28 | 56.29 | 0.46 | 17.43 | n.d. | 101.11 |
| 256 | 10.94 | 18.99 | 2.65 | 0.41 | 30.33 | n.d. | 36.43 | n.d. | 99.75  |
| 257 | 15.75 | 32.63 | 1.11 | 0.23 | 28.50 | n.d. | 21.90 | n.d. | 100.12 |
| 258 | 10.86 | 17.61 | 1.12 | 0.26 | 46.65 | 0.41 | 23.79 | n.d. | 100.70 |
| 259 | 0.85  | 5.77  | 5.17 | 0.61 | 28.14 | 0.77 | 58.21 | n.d. | 99.53  |
| 260 | 9.63  | 26.92 | 0.75 | n.d. | 32.60 | n.d. | 30.11 | n.d. | 100.01 |
| 261 | 5.63  | 18.73 | n.d. | 0.24 | 49.42 | n.d. | 25.97 | n.d. | 99.99  |
| 262 | 11.03 | 23.77 | 0.92 | n.d. | 35.62 | 0.43 | 28.32 | n.d. | 100.09 |
| 263 | 12.93 | 29.71 | 0.60 | n.d. | 34.01 | n.d. | 22.81 | n.d. | 100.07 |
|   | 12.60 | 24.57 | 0.62 | n.d. | 38.33 | 0.34 | 23.04 | n.d. | 99.50 |
|---|-------|-------|------|------|-------|------|-------|------|-------|
| 10.78 | 17.35 | 1.30 | 0.65 | 44.50 | 0.71 | 33.84 | 0.40 | 100.53 |
| 8.15 | 10.48 | n.d. | 0.27 | 58.87 | 0.63 | 21.11 | n.d. | 99.51 |
| 11.77 | 25.71 | n.d. | n.d. | 46.84 | 0.32 | 15.67 | n.d. | 100.31 |
| 2.08 | 23.66 | n.d. | 0.29 | 37.56 | 0.47 | 33.86 | 3.02 | 100.94 |
| 13.46 | 26.85 | n.d. | 0.24 | 42.74 | n.d. | 17.15 | n.d. | 100.44 |
| 13.31 | 27.60 | 0.84 | n.d. | 34.23 | n.d. | 24.56 | n.d. | 100.55 |
| 14.67 | 24.62 | 0.56 | n.d. | 41.06 | n.d. | 19.26 | n.d. | 100.17 |
| 1.52 | 17.39 | n.d. | 0.31 | 50.35 | 0.90 | 29.18 | 1.39 | 101.05 |
| 12.36 | 27.71 | 1.00 | 0.23 | 34.71 | n.d. | 23.97 | n.d. | 99.97 |
| 13.54 | 25.63 | 0.65 | n.d. | 37.67 | n.d. | 22.89 | n.d. | 100.38 |
| 9.40 | 15.69 | 1.33 | 0.30 | 41.06 | 0.53 | 30.81 | n.d. | 99.10 |
| 8.66 | 24.77 | 0.79 | n.d. | 31.25 | 0.50 | 34.02 | n.d. | 100.00 |
| 11.81 | 25.60 | 1.17 | n.d. | 28.71 | n.d. | 32.75 | n.d. | 100.06 |
| 10.55 | 9.43 | 0.28 | n.d. | 60.18 | 0.48 | 19.79 | n.d. | 100.72 |
| 4.30 | 13.67 | n.d. | 0.22 | 52.88 | 0.55 | 29.20 | 0.34 | 101.15 |
| 4.13 | 14.97 | 3.51 | 0.48 | 31.63 | 0.48 | 44.76 | n.d. | 99.96 |
| 11.93 | 28.92 | 0.74 | n.d. | 36.07 | n.d. | 22.63 | n.d. | 100.29 |
| 3.21 | 14.02 | 1.31 | n.d. | 52.36 | n.d. | 28.06 | n.d. | 98.95 |
| 2.27 | 5.14 | 2.96 | 0.58 | 32.29 | 0.55 | 55.86 | n.d. | 99.65 |
| 8.26 | 16.77 | 2.81 | 0.29 | 44.40 | 0.47 | 26.26 | n.d. | 99.27 |
| 0.58 | 22.85 | 1.17 | n.d. | 32.94 | 0.75 | 36.76 | 5.12 | 100.17 |
| 13.29 | 17.68 | 0.26 | n.d. | 50.68 | 1.11 | 17.34 | n.d. | 100.37 |
| 9.85 | 15.28 | 1.53 | n.d. | 45.51 | n.d. | 27.21 | n.d. | 99.38 |
| 3.12 | 7.05 | 4.47 | 0.55 | 26.95 | 0.59 | 56.82 | n.d. | 99.55 |
| 1.67 | 3.21 | 0.43 | n.d. | 50.95 | 0.72 | 41.27 | 1.74 | 99.99 |
| 10.48 | 11.29 | n.d. | n.d. | 60.53 | 0.67 | 15.71 | 1.83 | 100.51 |
| 1.14 | 14.21 | 0.38 | n.d. | 52.60 | 0.44 | 29.71 | 1.16 | 99.63 |
| 12.51 | 15.55 | 0.58 | n.d. | 49.70 | n.d. | 22.20 | n.d. | 100.55 |
| 11.83 | 22.89 | 1.33 | 0.25 | 34.44 | n.d. | 28.46 | n.d. | 99.19 |
| 6.66 | 18.41 | 1.57 | n.d. | 44.02 | 0.54 | 28.87 | n.d. | 100.07 |
| 11.97 | 23.04 | 1.73 | n.d. | 34.48 | n.d. | 28.13 | n.d. | 99.35 |
| 13.25 | 30.83 | 0.75 | n.d. | 34.43 | n.d. | 20.37 | n.d. | 99.63 |
| 8.88 | 16.71 | 0.96 | 0.33 | 45.14 | n.d. | 27.47 | n.d. | 99.50 |
| 7.51 | 23.60 | n.d. | n.d. | 47.78 | 0.57 | 18.62 | 2.50 | 100.57 |
| 0.58 | 9.28 | 0.44 | 0.62 | 37.15 | 0.52 | 50.37 | 0.91 | 99.88 |
| 13.01 | 27.85 | 0.66 | n.d. | 31.86 | 0.37 | 26.27 | n.d. | 100.02 |
| 9.98 | 17.34 | 0.76 | n.d. | 45.42 | n.d. | 26.04 | n.d. | 99.53 |
| 12.35 | 21.94 | 1.13 | n.d. | 31.22 | n.d. | 32.67 | n.d. | 99.31 |
| 6.23 | 22.71 | 0.38 | n.d. | 30.09 | 0.57 | 39.34 | n.d. | 99.32 |
| 13.68 | 28.07 | 1.00 | n.d. | 33.30 | n.d. | 24.10 | n.d. | 100.15 |
| 13.07 | 25.20 | 1.58 | n.d. | 32.38 | n.d. | 27.80 | n.d. | 100.04 |
| 1.72 | 12.14 | 1.97 | n.d. | 38.34 | 0.54 | 44.52 | 0.86 | 100.1 |
| 20.74 | 7.96 | 1.34 | 0.24 | 53.69 | 0.58 | 14.65 | n.d. | 99.21 |
| 10.80 | 21.84 | 1.36 | 0.29 | 39.01 | n.d. | 26.20 | n.d. | 99.51 |
|    |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 318| 9.10| 17.62| n.d.| 0.31| 54.18| n.d.| 18.16| n.d.| 99.37|
| 319| 12.82| 25.30| 1.27| n.d.| 32.87| n.d.| 26.37| n.d.| 98.64|
| 320| 11.38| 27.20| 0.72| n.d.| 36.17| n.d.| 23.45| n.d.| 98.91|
| 321| 4.97| 7.28| 1.54| n.d.| 39.35| 0.54| 44.78| 0.41| 98.87|
| 322| 11.53| 15.69| 0.52| n.d.| 50.87| n.d.| 20.99| n.d.| 99.60|
| 323| 6.69| 5.12| n.d.| n.d.| 63.39| 0.57| 23.91| n.d.| 99.68|
| 324| 13.58| 27.18| 1.01| 0.16| 32.42| n.d.| 24.62| n.d.| 98.97|
| 325| 12.69| 25.60| 0.65| 0.17| 33.60| n.d.| 26.18| n.d.| 98.89|
| 326| 10.69| 19.34| 0.51| n.d.| 39.24| n.d.| 29.31| n.d.| 99.10|
| 327| 13.32| 31.23| 0.73| n.d.| 31.02| 0.73| 23.75| n.d.| 100.78|
| 328| 4.06| 7.00| n.d.| n.d.| 51.80| 0.53| 36.51| n.d.| 99.90|
| 329| 0.95| 6.89| 4.43| 0.59| 27.01| 0.57| 59.30| n.d.| 99.75|
| 330| 11.52| 20.55| 1.04| n.d.| 39.76| n.d.| 26.32| n.d.| 99.19|
| 331| 9.99| 27.47| n.d.| n.d.| 38.14| n.d.| 23.36| 0.78| 99.74|
| 332| 0.60| 5.98| 0.3| n.d.| 51.40| 1.27| 38.92| 1.06| 99.52|
| 333| 6.20| 19.32| 0.23| 0.34| 41.57| 0.55| 31.51| n.d.| 99.73|
| 334| 4.13| 13.02| 0.38| n.d.| 49.52| 2.46| 29.11| 0.59| 99.22|
| 335| 7.28| 14.59| 1.95| 0.27| 45.34| 0.47| 29.08| n.d.| 98.98|
| 336| 13.09| 15.05| 0.64| n.d.| 49.28| 0.47| 20.81| n.d.| 99.33|
| 337| 3.23| 15.67| 0.72| 0.84| 35.81| 0.63| 43.31| n.d.| 100.22|
| 338| 7.46| 17.34| 5.13| 0.51| 31.17| n.d.| 37.50| n.d.| 99.12|
| 339| 13.40| 31.19| 1.18| n.d.| 27.45| 0.41| 25.92| n.d.| 99.56|
| 340| 14.32| 31.16| 0.64| n.d.| 31.07| n.d.| 21.42| n.d.| 98.62|
| 341| 7.01| 9.53| 0.77| 0.23| 60.27| n.d.| 22.18| n.d.| 99.99|
| 342| 11.42| 15.23| 0.22| n.d.| 52.77| n.d.| 20.02| n.d.| 99.65|
| 343| 10.21| 16.55| 0.44| n.d.| 54.59| n.d.| 18.02| n.d.| 99.82|
| 344| 10.25| 8.22| n.d.| n.d.| 63.82| 0.62| 17.07| n.d.| 99.97|
| 345| 7.99| 13.25| 1.60| 0.28| 44.07| 0.53| 32.20| n.d.| 99.91|
| 346| 11.44| 23.52| 0.87| n.d.| 33.72| n.d.| 29.47| n.d.| 99.03|
| 347| 10.20| 18.06| 1.06| n.d.| 41.73| n.d.| 28.81| n.d.| 99.86|
| 348| 4.49| 9.21| 0.48| 0.29| 51.74| 0.49| 33.86| 0.45| 101.01|
| 349| 14.45| 9.52| 0.23| n.d.| 56.81| 0.62| 17.98| n.d.| 99.61|
| 350| 7.41| 12.65| 5.33| 0.47| 32.16| 0.37| 41.44| n.d.| 99.83|
| 351| 8.20| 5.46| n.d.| 0.26| 65.80| 3.43| 14.33| 2.35| 99.83|
| 352| 4.23| 9.18| 0.64| n.d.| 54.35| 0.82| 30.48| n.d.| 99.72|
| 353| 12.36| 24.50| 0.88| n.d.| 34.17| n.d.| 27.82| n.d.| 99.73|
| 354| 12.08| 23.99| 0.79| 0.18| 34.63| n.d.| 28.22| n.d.| 99.88|
| 355| 3.11| 24.88| 0.57| 0.43| 34.87| 0.87| 32.45| 2.75| 99.93|
| 356| 1.93| 9.71| n.d.| n.d.| 58.01| 0.64| 29.58| 0.53| 100.41|
| 357| 4.07| 16.15| n.d.| 0.30| 59.87| 0.57| 19.59| 0.51| 101.07|
| 358| 9.13| 14.76| 2.37| 0.41| 37.00| 0.59| 36.10| n.d.| 100.36|
| 359| 12.87| 27.59| 0.73| n.d.| 32.20| n.d.| 26.49| n.d.| 99.88|
| 360| 8.70| 16.95| 4.12| 0.31| 32.07| n.d.| 37.82| n.d.| 99.98|
| 361| 11.23| 21.85| 1.08| 0.25| 36.41| n.d.| 28.77| n.d.| 99.59|
| 362| 7.25| 20.71| 1.33| n.d.| 35.95| 0.59| 33.63| 0.95| 100.40|
|   | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   | 11.70 | 25.81 | 1.47 | n.d. | 30.84 | n.d. | 28.98 | n.d. | 98.79 | 13.17 | 26.66 | 0.88 | n.d. | 34.57 | n.d. | 24.38 | n.d. | 99.66 | 0.30 | 7.82 | 1.29 | n.d. | 33.25 | 1.01 | 55.90 | n.d. | 99.57 | 13.53 | 28.03 | 0.71 | 0.19 | 34.11 | 0.37 | 23.49 | n.d. | 100.43 | 7.08 | 11.71 | 3.75 | 0.32 | 46.24 | n.d. | 30.94 | n.d. | 100.04 | 3.52 | 15.72 | 0.90 | 0.32 | 32.84 | 0.49 | 44.40 | 0.50 | 98.69 | 12.15 | 26.81 | 0.82 | n.d. | 34.18 | n.d. | 25.93 | n.d. | 99.89 | 9.67 | 17.23 | 0.64 | n.d. | 46.07 | n.d. | 26.11 | n.d. | 99.72 | 3.08 | 24.81 | 0.67 | 0.43 | 34.78 | 0.64 | 31.90 | 2.91 | 99.22 | 12.50 | 23.70 | 1.13 | n.d. | 37.83 | 0.47 | 24.38 | n.d. | 100.00 | 10.20 | 14.53 | n.d. | n.d. | 56.84 | 1.29 | 15.81 | 0.84 | 99.51 | 11.25 | 23.49 | 0.30 | n.d. | 45.52 | n.d. | 19.09 | n.d. | 99.65 | 12.33 | 21.80 | 0.23 | 0.21 | 43.63 | n.d. | 21.39 | n.d. | 99.59 | n.d. | 8.53 | 1.15 | n.d. | 51.78 | 2.08 | 33.16 | 2.34 | 99.03 | 1.90 | 15.06 | 1.14 | 0.40 | 32.46 | 1.22 | 47.99 | n.d. | 100.17 | 6.25 | 17.06 | 1.13 | n.d. | 40.09 | 0.59 | 34.88 | n.d. | 100.01 | 13.35 | 28.12 | 0.88 | n.d. | 32.34 | n.d. | 24.19 | n.d. | 98.87 | 15.05 | 31.27 | 0.69 | n.d. | 32.84 | n.d. | 20.34 | n.d. | 100.19 | 9.21 | 17.57 | 0.64 | n.d. | 46.18 | 0.51 | 26.51 | n.d. | 100.63 | 8.14 | 15.33 | n.d. | n.d. | 55.25 | 0.97 | 19.72 | 0.41 | 99.82 | 12.68 | 25.68 | 0.72 | n.d. | 33.86 | n.d. | 25.75 | n.d. | 98.70 | 8.40 | 16.87 | 1.91 | 0.38 | 34.96 | 0.43 | 37.15 | n.d. | 100.11 | 14.83 | 28.41 | 1.11 | 0.21 | 34.50 | n.d. | 20.55 | n.d. | 99.60 | 8.67 | 14.31 | 2.94 | 0.35 | 31.74 | n.d. | 41.14 | n.d. | 99.16 | 12.55 | 18.35 | 0.98 | n.d. | 42.00 | n.d. | 24.75 | n.d. | 98.63 | 10.39 | 21.94 | 1.23 | 0.28 | 35.19 | n.d. | 30.04 | n.d. | 99.07 | 15.06 | 31.08 | 0.67 | n.d. | 31.84 | n.d. | 21.05 | n.d. | 99.70 | 12.62 | 22.53 | 0.62 | n.d. | 40.18 | n.d. | 23.04 | n.d. | 98.98 | 12.19 | 24.10 | 0.56 | n.d. | 38.72 | 0.43 | 23.65 | n.d. | 99.66 | 2.66 | 17.74 | 1.48 | 0.34 | 29.61 | n.d. | 47.57 | 0.48 | 99.86 | 4.98 | 13.00 | 0.53 | 0.59 | 38.47 | 0.53 | 41.66 | n.d. | 99.76 | 11.09 | 10.08 | 0.36 | n.d. | 59.25 | n.d. | 19.25 | n.d. | 100.03 | 11.67 | 17.59 | 0.24 | n.d. | 48.42 | 0.33 | 21.17 | n.d. | 99.42 | 5.66 | 16.93 | 0.48 | 0.32 | 46.36 | 0.48 | 30.17 | n.d. | 100.40 | 4.15 | 10.78 | 1.79 | n.d. | 37.34 | 0.34 | 45.53 | n.d. | 99.93 | 8.08 | 15.40 | 1.87 | 0.40 | 35.84 | n.d. | 38.22 | n.d. | 99.81 | 10.59 | 23.15 | 1.44 | 0.29 | 30.28 | n.d. | 33.81 | n.d. | 99.56 | 8.76 | 19.01 | 2.98 | 0.26 | 33.67 | n.d. | 34.59 | n.d. | 99.26 | 8.16 | 11.41 | 0.37 | n.d. | 56.55 | 0.48 | 23.80 | n.d. | 100.77 | 8.82 | 16.62 | 0.25 | 0.29 | 48.22 | n.d. | 24.98 | n.d. | 99.19 | 8.23 | 10.00 | 0.22 | n.d. | 55.62 | 0.55 | 25.45 | n.d. | 100.06 | 1.96 | 8.98 | 1.75 | n.d. | 45.17 | 1.61 | 34.51 | 6.13 | 100.09 | 8.31 | 17.07 | n.d. | n.d. | 55.72 | 0.46 | 18.55 | 0.29 | 100.4 | 3.92 | 9.40 | 0.54 | n.d. | 51.26 | 0.68 | 33.55 | 0.55 | 99.90 | 1.04 | 9.57 | 0.23 | n.d. | 55.77 | 2.06 | 27.95 | 3.28 | 99.90 |
2.2 Hypagnostus limestone (Upper Middle Cambrian)

Samples were collected from the ca 0.6 meter thick Hypagnostus limestone bed belonging to the Drumian Global Stage.

2.2.1 Hypagnostus limestone results

Hypagnostus limestone (Gudhem), mounts 411, 446, 447, 454, 460-462, weight 288 kg.

EC >63 µm

|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 4.55 | 5.77  | 1.95 | 0.73 | 60.07 | 1.25 | 25.61| n.d. | 99.93 |
| 2   | 2.10 | 5.32  | 3.26 | 0.70 | 58.28 | 0.78 | 29.54| n.d. | 99.99 |
| 3   | 3.16 | 5.84  | 2.21 | 0.80 | 59.66 | 1.18 | 27.06| n.d. | 99.91 |
| 4   | 2.08 | 5.89  | 3.07 | 0.77 | 59.30 | 0.63 | 28.85| 0.45 | 101.05|
| 5   | 2.93 | 4.89  | 3.50 | 0.91 | 58.98 | 0.58 | 28.19| 0.90 | 100.89|
| 6   | 2.02 | 5.14  | 4.36 | 0.71 | 55.64 | 0.72 | 30.77| 0.41 | 99.76 |
| 7   | 3.12 | 6.22  | 2.21 | 0.80 | 58.75 | 1.06 | 27.49| 0.29 | 99.93 |
| 8   | 3.56 | 6.78  | 2.34 | 0.67 | 59.38 | 0.93 | 26.04| 0.36 | 100.07|
| 9   | 1.97 | 9.18  | 2.05 | 0.58 | 55.66 | 0.83 | 29.59| n.d. | 99.87 |
| 10  | 4.46 | 5.84  | 3.58 | 0.73 | 56.87 | 0.70 | 27.17| n.d. | 99.35 |
| 11  | 3.98 | 6.64  | 1.83 | 0.77 | 59.19 | 1.09 | 26.61| n.d. | 100.11|
| 12  | 2.75 | 5.59  | 2.14 | 0.75 | 59.51 | 1.02 | 27.45| 0.72 | 99.93 |
| 13  | 3.14 | 6.15  | 2.05 | 0.66 | 59.96 | 1.02 | 27.34| 0.35 | 100.67|
| 14  | 1.81 | 5.07  | 4.54 | 0.80 | 57.10 | 0.49 | 30.65| n.d. | 100.45|
| 15  | 2.90 | 6.13  | 2.46 | 0.63 | 59.27 | 0.98 | 27.67| 0.40 | 100.42|
| 16  | 2.64 | 6.30  | 2.16 | 0.74 | 61.95 | 0.95 | 25.58| 0.47 | 100.79|
|    | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-------|------|-------|-------|-----|-----|-----|-------|
| 1  | 11.32 | 2.74 | 0.79  | 51.94 | n.d.| 28.03| n.d.| 99.30 |
| 2  | 15.85 | 1.03 | 0.53  | 50.74 | 0.61| 26.11| n.d.| 99.56 |
| 3  | 12.49 | 1.80 | 0.63  | 54.83 | 0.76| 26.39| n.d.| 100.74|
| 4  | 12.96 | n.d. | 0.70  | 55.13 | n.d.| 26.32| n.d.| 99.88 |
| 5  | 12.31 | 0.73 | 0.60  | 55.72 | 0.58| 26.76| n.d.| 99.91 |
| 6  | 15.99 | 1.00 | 0.63  | 50.99 | 0.64| 26.06| n.d.| 99.96 |
| 7  | 13.30 | 0.81 | 0.77  | 56.00 | 0.67| 23.19| n.d.| 100.89|
| 8  | 18.00 | 0.87 | 0.46  | 50.16 | 0.71| 25.68| n.d.| 100.69|
| 9  | 8.72  | 0.83 | 0.57  | 61.34 | 0.72| 24.27| n.d.| 101.31|
| 10 | 12.39 | 2.48 | 0.63  | 52.95 | n.d.| 28.48| n.d.| 100.44|
| 11 | 17.54 | 0.89 | 0.53  | 48.20 | 0.65| 30.00| n.d.| 100.68|
| 12 | 22.78 | 0.41 | 0.68  | 41.42 | 0.52| 27.00| n.d.| 99.74 |
| 13 | 23.55 | 0.42 | 0.51  | 40.88 | n.d.| 27.03| 0.47| 99.69 |
| 14 | 7.74  | 0.75 | 0.69  | 59.63 | 0.62| 28.37| n.d.| 100.22|
| 15 | 11.05 | 2.50 | 0.70  | 53.99 | 0.42| 29.07| n.d.| 100.55|

\[OtC-V >63 \mu m\]

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO  | ZnO | Total |
|----|------|-------|------|-------|-------|-----|------|-----|-------|
| 1  | 3.78 | 13.16 | 1.86 | 0.45  | 31.16 | n.d.| 50.81| n.d.| 101.22|
| 2  | 8.74 | 28.68 | n.d. | n.d.  | 41.34 | n.d.| 21.20| n.d.| 99.96 |
| 3  | 0.61 | 15.63 | n.d. | n.d.  | 46.21 | 1.18| 35.01| 0.85| 99.48 |
| 4  | 7.64 | 3.78  | 1.76 | n.d.  | 60.44 | n.d.| 25.28| n.d.| 98.91 |
| 5  | 8.58 | 28.13 | 0.45 | n.d.  | 31.74 | n.d.| 30.92| 0.40| 100.22|
| 6  | 6.74 | 18.23 | n.d. | n.d.  | 53.93 | n.d.| 21.04| n.d.| 99.95 |
| 7  | 8.23 | 27.80 | n.d. | 0.27  | 34.62 | 0.43| 27.68| n.d.| 99.03 |
| 8  | 3.77 | 6.82  | n.d. | n.d.  | 62.04 | n.d.| 26.44| 0.45| 99.52 |
| 9  | 9.50 | 19.96 | 0.51 | n.d.  | 48.69 | n.d.| 20.75| n.d.| 99.42 |
| 10 | 8.66 | 15.83 | n.d. | n.d.  | 59.68 | n.d.| 15.83| n.d.| 100.00|
| 11 | 7.92 | 27.02 | n.d. | n.d.  | 44.32 | 0.29| 19.14| 0.47| 99.17 |
| 12 | 4.29 | 12.23 | 0.55 | 0.44  | 56.15 | 0.65| 26.89| n.d.| 101.20|
| 13 | 12.24| 20.25 | n.d. | n.d.  | 51.36 | n.d.| 15.64| n.d.| 99.50 |
| 14 | 8.35 | 16.90 | 0.77 | n.d.  | 43.08 | 0.48| 30.50| n.d.| 100.07|
| 15 | 7.38 | 15.20 | 0.54 | n.d.  | 50.94 | 0.51| 25.35| n.d.| 99.91 |
| 16 | 5.97 | 13.53 | 0.28 | n.d.  | 52.37 | 0.62| 27.81| n.d.| 100.58|

\[OtC >63 \mu m\]
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 17 | 10.27 | 19.59 | 0.35 | n.d. | 51.43 | n.d. | 18.18 | n.d. | 99.82 |
| 18 | 11.36 | 23.25 | 1.36 | n.d. | 32.68 | n.d. | 31.39 | n.d. | 100.05 |
| 19 | 6.32  | 12.46 | n.d. | n.d. | 55.90 | 0.41 | 24.95 | n.d. | 100.04 |
| 20 | 4.27  | 12.70 | n.d. | 0.28 | 54.29 | n.d. | 26.49 | 1.55 | 99.58 |
| 21 | 9.46  | 31.47 | n.d. | n.d. | 33.39 | 0.38 | 25.41 | n.d. | 100.11 |
| 22 | n.d.  | 6.67  | 0.41 | n.d. | 55.28 | 1.89 | 31.80 | 3.72 | 99.77 |
| 23 | 8.40  | 29.12 | n.d. | 0.30 | 32.68 | 0.47 | 27.93 | 0.54 | 99.45 |
| 24 | 3.18  | 24.38 | 0.57 | n.d. | 45.21 | 0.60 | 23.39 | 1.71 | 99.04 |
| 25 | 11.04 | 19.53 | n.d. | n.d. | 54.85 | n.d. | 13.24 | n.d. | 98.66 |
| 26 | 9.86  | 23.69 | n.d. | n.d. | 48.01 | n.d. | 17.30 | n.d. | 98.87 |
| 27 | 10.80 | 23.35 | n.d. | n.d. | 47.62 | n.d. | 17.46 | n.d. | 99.22 |
| 28 | 14.49 | 18.97 | 1.09 | 0.22 | 46.77 | n.d. | 18.50 | n.d. | 100.03 |
| 29 | 11.97 | 25.75 | 0.59 | n.d. | 46.75 | n.d. | 14.49 | n.d. | 99.55 |
| 30 | 7.49  | 11.84 | n.d. | n.d. | 56.04 | 2.45 | 21.45 | 0.62 | 99.88 |
| 31 | 3.73  | 6.54  | n.d. | n.d. | 62.83 | 0.64 | 26.08 | 0.42 | 100.23 |
| 32 | 7.44  | 10.37 | 3.27 | 0.32 | 39.61 | 0.51 | 38.00 | n.d. | 99.53 |
| 33 | 6.79  | 14.35 | 2.22 | 0.25 | 46.41 | n.d. | 29.35 | n.d. | 99.37 |
| 34 | 8.83  | 19.07 | n.d. | n.d. | 39.96 | 0.41 | 31.12 | n.d. | 99.40 |
| 35 | 7.09  | 15.16 | n.d. | n.d. | 51.86 | 0.53 | 24.26 | 0.69 | 99.59 |
| 36 | 13.34 | 19.27 | 1.74 | 0.33 | 43.99 | n.d. | 21.32 | n.d. | 100.00 |
| 37 | 7.64  | 22.95 | n.d. | n.d. | 49.50 | n.d. | 19.03 | n.d. | 99.12 |
| 38 | 8.99  | 29.58 | 0.46 | n.d. | 33.82 | n.d. | 27.26 | 0.59 | 100.71 |
| 39 | 14.25 | 31.00 | 1.07 | n.d. | 30.38 | n.d. | 23.61 | n.d. | 100.31 |
| 40 | 12.17 | 23.87 | 1.07 | n.d. | 38.93 | n.d. | 24.54 | n.d. | 100.59 |
| 41 | 12.5  | 26.99 | 1.05 | n.d. | 31.48 | n.d. | 26.76 | n.d. | 98.78 |
| 42 | 8.59  | 28.82 | n.d. | 0.32 | 32.97 | n.d. | 28.64 | 0.47 | 99.81 |
| 43 | 6.45  | 24.40 | n.d. | 0.26 | 35.67 | n.d. | 31.85 | 0.51 | 99.13 |
| 44 | 3.31  | 14.45 | 1.21 | 0.44 | 52.26 | n.d. | 27.51 | n.d. | 99.18 |
| 45 | 3.80  | 14.29 | 0.91 | 0.33 | 35.96 | 0.62 | 44.53 | n.d. | 100.44 |
| 46 | 7.80  | 19.48 | n.d. | n.d. | 44.72 | 0.58 | 26.00 | 0.52 | 99.11 |
| 47 | 8.50  | 28.60 | n.d. | 0.30 | 33.46 | n.d. | 28.36 | n.d. | 99.22 |
| 48 | 12.72 | 19.20 | 1.55 | 0.32 | 42.47 | 0.45 | 23.29 | n.d. | 100.00 |
| 49 | 2.06  | 9.27  | 1.00 | n.d. | 52.61 | 0.50 | 34.23 | 1.43 | 101.10 |
| 50 | 5.05  | 10.05 | n.d. | n.d. | 57.03 | n.d. | 26.64 | n.d. | 98.78 |
| 51 | 8.68  | 13.59 | 0.19 | n.d. | 52.35 | 0.44 | 24.84 | n.d. | 100.09 |
| 52 | 10.71 | 19.17 | n.d. | 0.25 | 53.25 | 0.90 | 14.92 | 0.89 | 100.08 |
| 53 | 7.59  | 11.13 | n.d. | 0.17 | 61.84 | 0.56 | 18.10 | n.d. | 99.38 |
| 54 | 7.29  | 11.15 | n.d. | n.d. | 61.96 | 0.55 | 18.35 | n.d. | 99.30 |
| 55 | 7.28  | 31.06 | n.d. | n.d. | 32.02 | n.d. | 28.53 | n.d. | 98.88 |
| 56 | 0.47  | 15.97 | 0.24 | n.d. | 45.69 | 2.36 | 31.20 | 3.95 | 99.88 |
| 57 | 7.66  | 23.56 | n.d. | n.d. | 48.34 | n.d. | 19.32 | 0.35 | 99.22 |
| 58 | 4.41  | 11.77 | n.d. | 0.22 | 56.15 | n.d. | 26.75 | 0.45 | 99.76 |
| 59 | 14.52 | 26.90 | 0.64 | n.d. | 43.39 | n.d. | 14.32 | n.d. | 99.77 |
| 60 | 14.05 | 19.76 | 0.82 | n.d. | 48.86 | n.d. | 15.41 | n.d. | 98.90 |
| 61 | 10.06 | 18.77 | 0.47 | n.d. | 50.58 | n.d. | 19.79 | n.d. | 99.66 |
|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1 | 2.05 | 6.06  | 4.20 | 0.72 | 54.74 | 0.77 | 29.60 | 0.46 | 98.61 |
| 2 | 3.27 | 7.68  | 2.85 | 0.63 | 56.41 | 0.76 | 27.99 | 0.48 | 100.07 |
| 3 | 2.46 | 5.03  | 1.46 | 0.70 | 61.98 | 1.19 | 27.66 | 0.69 | 101.17 |
| 4 | 2.33 | 5.56  | 2.04 | 0.82 | 59.98 | 0.87 | 27.81 | 0.63 | 100.05 |
| 5 | 2.79 | 6.45  | 1.52 | 0.73 | 59.63 | 1.17 | 27.05 | 0.56 | 99.91 |
| 6 | 1.99 | 6.04  | 1.73 | 0.77 | 59.95 | 1.01 | 27.97 | 0.75 | 100.20 |
| 7 | 2.73 | 5.65  | 3.70 | 0.92 | 56.40 | 0.78 | 29.27 | 0.41 | 99.87 |
| 8 | 3.02 | 7.07  | 1.85 | 0.78 | 58.78 | 1.05 | 27.50 | 0.48 | 100.54 |
| 9 | 5.01 | 6.72  | 2.98 | 0.80 | 57.78 | 0.97 | 25.97 | 0.41 | 100.63 |
| 10| 1.71 | 4.91  | 3.22 | 0.85 | 58.67 | 0.89 | 28.96 | 0.71 | 99.93 |
| 11| 3.42 | 6.34  | 1.50 | 0.89 | 60.39 | 1.15 | 25.83 | 0.68 | 100.20 |
| 12| 3.25 | 6.45  | 2.16 | 0.80 | 58.25 | 0.97 | 27.74 | 0.55 | 100.18 |
| 13| 3.33 | 5.88  | 3.20 | 0.79 | 57.66 | 0.88 | 27.51 | n.d. | 99.26 |
| 14| 2.83 | 6.32  | 3.48 | 0.78 | 57.37 | 0.85 | 28.18 | 0.37 | 100.18 |
| 15| 3.01 | 6.79  | 2.19 | 0.75 | 58.13 | 0.97 | 27.90 | 0.56 | 100.29 |
| 16| 2.66 | 6.12  | 2.00 | 0.73 | 59.40 | 1.14 | 27.40 | 0.53 | 99.98 |
| 17| 2.48 | 4.84  | 3.08 | 0.71 | 57.88 | 0.86 | 29.94 | 0.55 | 100.34 |
| 18| 4.01 | 6.58  | 3.50 | 0.74 | 58.36 | 0.75 | 27.26 | n.d. | 101.21 |
| 19| 1.00 | 4.80  | 3.28 | 0.70 | 59.36 | n.d. | 30.03 | 0.48 | 99.65 |
| 20| 3.53 | 5.33  | 2.95 | 0.67 | 58.72 | 0.69 | 28.69 | n.d. | 100.58 |
| 21| 2.26 | 5.52  | 3.36 | 0.71 | 57.97 | n.d. | 30.84 | n.d. | 100.67 |
| 22| 4.05 | 6.75  | 2.05 | 0.66 | 60.25 | 0.97 | 25.55 | 0.63 | 100.92 |
| 23| 5.78 | 7.50  | 1.14 | 0.68 | 60.09 | 1.00 | 24.35 | n.d. | 100.54 |
| 24| 4.98 | 6.61  | 2.42 | 0.67 | 61.18 | 0.85 | 23.40 | 0.52 | 100.63 |
| 25| 2.32 | 5.94  | 2.02 | 0.78 | 59.56 | 0.67 | 28.42 | 0.63 | 100.36 |
| 26| 2.74 | 5.59  | 3.89 | 0.81 | 56.61 | 0.63 | 30.32 | n.d. | 100.59 |
| 27| 3.47 | 7.26  | 2.20 | 0.76 | 57.58 | 0.79 | 27.15 | 0.68 | 99.88 |
|   | 2.58 | 6.48 | 2.81 | 0.75 | 58.13 | 0.84 | 28.18 | 0.42 | 100.19 |
|---|------|------|------|------|-------|------|-------|------|--------|
| 29 | 2.21 | 6.79 | 2.39 | 0.84 | 58.44 | 0.89 | 28.52 | n.d. | 100.08 |
| 30 | 3.47 | 6.83 | 2.25 | 0.66 | 59.51 | 1.11 | 26.05 | n.d. | 99.88  |
| 31 | 2.75 | 6.19 | 1.73 | 0.78 | 59.74 | 1.21 | 27.67 | 0.41 | 100.49 |
| 32 | 4.59 | 5.77 | 2.91 | 0.65 | 60.60 | 0.92 | 24.75 | n.d. | 100.18 |
| 33 | 1.74 | 5.82 | 3.76 | 0.68 | 56.19 | 0.71 | 31.32 | 0.36 | 100.57 |
| 34 | 3.37 | 6.24 | 2.12 | 0.72 | 59.47 | 0.70 | 28.34 | 0.32 | 101.28 |
| 35 | 1.51 | 5.53 | 4.12 | 0.70 | 56.21 | 0.76 | 31.14 | 0.53 | 100.49 |
| 36 | 2.59 | 5.95 | 2.21 | 0.76 | 59.77 | 1.11 | 28.00 | 0.50 | 100.89 |
| 37 | 2.26 | 5.57 | 3.82 | 0.76 | 57.29 | 0.60 | 29.49 | n.d. | 99.81  |
| 38 | 3.86 | 6.44 | 2.22 | 0.73 | 58.05 | 0.89 | 26.30 | 0.99 | 99.48  |
| 39 | 2.89 | 6.99 | 1.63 | 0.73 | 59.66 | 1.20 | 26.94 | n.d. | 100.04 |
| 40 | 2.67 | 6.64 | 1.79 | 0.63 | 59.37 | 1.30 | 27.81 | 0.55 | 100.76 |
| 41 | 2.02 | 5.41 | 4.09 | 0.66 | 57.49 | 0.62 | 29.85 | n.d. | 100.14 |
| 42 | 3.13 | 5.09 | 2.32 | 0.83 | 60.40 | 0.97 | 26.74 | 0.45 | 99.94  |
| 43 | 2.86 | 5.23 | 2.06 | 0.78 | 61.18 | 1.04 | 26.63 | 0.64 | 100.42 |
| 44 | 2.97 | 6.58 | 1.48 | 0.82 | 60.39 | 0.91 | 27.32 | n.d. | 100.48 |
| 45 | 1.68 | 5.59 | 3.13 | 0.73 | 57.56 | n.d. | 30.21 | n.d. | 98.91  |
| 46 | 1.87 | 5.26 | 3.99 | 0.79 | 57.23 | 0.73 | 30.30 | 0.43 | 100.60 |
| 47 | 1.69 | 5.75 | 3.51 | 0.86 | 57.47 | 0.73 | 30.18 | 0.35 | 100.54 |
| 48 | 4.15 | 6.44 | 1.94 | 0.82 | 58.93 | 1.12 | 25.85 | n.d. | 99.25  |
| 49 | 1.85 | 5.85 | 3.00 | 0.71 | 58.38 | 0.68 | 29.58 | 0.50 | 100.56 |
| 50 | 3.26 | 6.21 | 2.23 | 0.86 | 60.24 | 0.99 | 27.05 | n.d. | 100.83 |
| 51 | 3.07 | 8.86 | 2.35 | 0.69 | 57.05 | 0.65 | 27.76 | n.d. | 100.43 |
| 52 | 2.23 | 5.65 | 2.42 | 0.76 | 59.02 | 1.08 | 28.27 | n.d. | 99.44  |
| 53 | 2.99 | 6.09 | 2.43 | 0.72 | 58.92 | 1.09 | 27.73 | 0.44 | 100.41 |
| 54 | 5.62 | 5.16 | 1.88 | 0.70 | 60.60 | 0.98 | 23.58 | n.d. | 98.51  |
| 55 | 2.89 | 6.57 | 1.92 | 0.74 | 59.28 | 0.94 | 27.92 | n.d. | 100.25 |
| 56 | 3.68 | 5.90 | 1.95 | 0.78 | 60.95 | 1.00 | 25.32 | 0.27 | 99.85  |
| 57 | 4.40 | 4.97 | 2.26 | 0.74 | 60.62 | 0.89 | 25.45 | 0.60 | 99.93  |
| 58 | 2.56 | 5.76 | 2.12 | 0.62 | 60.45 | 1.03 | 27.33 | 0.52 | 100.38 |
| 59 | 2.02 | 5.96 | 3.78 | 0.80 | 57.47 | 0.77 | 29.90 | n.d. | 100.69 |
| 60 | 2.19 | 5.70 | 3.75 | 0.74 | 56.79 | 0.61 | 30.48 | n.d. | 100.26 |
| 61 | 2.56 | 7.89 | 3.60 | 0.70 | 54.20 | 0.67 | 30.94 | n.d. | 100.56 |
| 62 | 5.34 | 6.01 | 1.78 | 0.78 | 61.04 | 0.92 | 24.95 | n.d. | 100.81 |
| 63 | 4.31 | 6.22 | 2.28 | 0.65 | 59.54 | 1.04 | 26.03 | n.d. | 100.06 |
| 64 | 1.68 | 5.22 | 4.44 | 0.76 | 55.98 | 0.56 | 31.78 | 0.40 | 100.82 |
| 65 | 2.69 | 6.23 | 2.35 | 0.76 | 60.19 | 0.92 | 26.04 | 0.43 | 99.60  |
| 66 | 4.74 | 5.39 | 2.36 | 0.63 | 62.08 | 1.01 | 24.62 | 0.77 | 101.60 |
| 67 | 4.54 | 5.08 | 1.83 | 0.59 | 61.70 | 1.48 | 25.17 | n.d. | 100.40 |
| 68 | 3.87 | 6.18 | 2.21 | 0.67 | 58.56 | 1.10 | 26.39 | 0.33 | 99.31  |
| 69 | 5.68 | 5.15 | 2.59 | 0.81 | 61.61 | 0.73 | 22.88 | 0.72 | 100.17 |
| 70 | 2.82 | 6.19 | 2.19 | 0.71 | 60.50 | 1.25 | 26.38 | n.d. | 100.04 |
| 71 | 2.23 | 6.19 | 3.07 | 0.74 | 56.81 | 0.82 | 29.90 | n.d. | 99.77  |
| 72 | 5.57 | 5.28 | 1.57 | 0.80 | 59.87 | n.d. | 27.32 | n.d. | 100.42 |
|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | 3.09 | 6.84 | 2.44 | 0.69 | 58.88 | 1.10 | 27.04 | 0.45 | 100.54 |
| 74 | 3.53 | 6.55 | 2.31 | 0.69 | 59.96 | 1.10 | 25.84 | n.d. | 99.97 |
| 75 | 4.00 | 5.93 | 2.17 | 0.84 | 59.81 | 1.04 | 25.71 | n.d. | 99.50 |
| 76 | 2.79 | 6.05 | 1.68 | 0.71 | 61.85 | 1.28 | 25.11 | 0.71 | 100.20 |
| 77 | 3.62 | 5.74 | 1.50 | 0.72 | 60.90 | 1.08 | 26.95 | 0.52 | 101.02 |
| 78 | 3.91 | 6.43 | 2.17 | 0.70 | 59.14 | 1.13 | 26.22 | 0.45 | 100.16 |
| 79 | 2.06 | 6.55 | 3.17 | 0.83 | 56.40 | 0.79 | 29.51 | n.d. | 99.29 |
| 80 | 3.82 | 5.98 | 2.50 | 0.71 | 59.40 | 0.89 | 25.79 | 0.54 | 99.62 |
| 81 | 2.55 | 6.53 | 1.86 | 0.80 | 58.23 | 1.15 | 28.13 | 0.50 | 99.76 |
| 82 | 3.12 | 6.50 | 2.23 | 0.70 | 58.93 | 0.97 | 25.79 | 0.51 | 98.75 |
| 83 | 2.95 | 6.64 | 2.08 | 0.69 | 59.45 | 1.06 | 27.18 | n.d. | 100.06 |
| 84 | 4.41 | 5.70 | 1.83 | 0.73 | 59.91 | 0.55 | 26.99 | n.d. | 100.12 |
| 85 | 3.00 | 6.53 | 2.28 | 0.67 | 59.38 | 0.92 | 27.67 | 0.48 | 100.92 |
| 86 | 3.11 | 5.89 | 1.39 | 0.61 | 60.22 | 1.12 | 27.46 | n.d. | 99.80 |
| 87 | 3.02 | 6.68 | 2.29 | 0.82 | 59.30 | 0.94 | 25.95 | n.d. | 99.00 |
| 88 | 1.87 | 5.96 | 3.22 | 0.74 | 57.48 | 0.89 | 29.75 | 0.33 | 100.25 |
| 89 | 3.08 | 6.45 | 2.40 | 0.77 | 59.30 | 1.12 | 26.41 | 0.40 | 99.93 |
| 90 | 1.70 | 5.39 | 4.54 | 0.75 | 55.37 | 0.65 | 31.99 | 0.34 | 100.72 |
| 91 | 2.02 | 5.46 | 3.10 | 0.78 | 57.71 | 0.85 | 30.15 | 0.41 | 100.48 |
| 92 | 1.92 | 6.06 | 2.73 | 0.77 | 58.02 | 1.14 | 29.75 | 0.55 | 100.94 |
| 93 | 2.77 | 6.24 | 1.77 | 0.79 | 58.91 | 1.31 | 27.35 | 0.44 | 99.58 |
| 94 | 2.58 | 5.72 | 3.46 | 0.73 | 58.07 | 0.88 | 27.97 | n.d. | 99.41 |
| 95 | 1.58 | 6.13 | 2.76 | 0.79 | 58.80 | 0.69 | 29.49 | 0.56 | 100.80 |
| 96 | 2.86 | 6.06 | 2.63 | 0.65 | 59.42 | 0.97 | 27.35 | 0.38 | 100.32 |
| 97 | 3.40 | 5.62 | 2.39 | 0.66 | 60.18 | 1.12 | 27.67 | n.d. | 101.04 |
| 98 | 1.85 | 6.22 | 3.26 | 0.76 | 56.67 | 0.77 | 30.80 | 0.38 | 100.70 |
| 99 | 3.04 | 6.04 | 3.29 | 0.77 | 57.37 | 0.82 | 29.32 | 0.34 | 100.99 |
|100 | 1.61 | 6.38 | 3.60 | 0.83 | 56.45 | 0.79 | 30.54 | 0.45 | 100.66 |
|101 | 3.07 | 6.60 | 1.67 | 0.78 | 59.08 | 1.24 | 27.62 | 0.46 | 100.51 |
|102 | 2.34 | 5.51 | 2.92 | 0.75 | 58.24 | 0.84 | 29.66 | 0.47 | 100.72 |
|103 | 1.68 | 7.24 | 2.06 | 0.70 | 57.46 | 0.64 | 29.68 | 0.49 | 99.95 |
|104 | 3.66 | 5.41 | 2.48 | 0.70 | 59.86 | 0.86 | 27.25 | 0.34 | 100.57 |
|105 | 2.46 | 4.70 | 1.53 | 0.77 | 61.06 | 1.11 | 27.02 | 0.66 | 99.32 |
|106 | 3.14 | 6.41 | 2.25 | 0.68 | 58.75 | 1.17 | 27.83 | 0.48 | 100.70 |
|107 | 3.27 | 6.44 | 2.21 | 0.66 | 58.57 | 1.30 | 27.19 | 0.36 | 100.00 |
|108 | 2.80 | 6.44 | 2.04 | 0.76 | 59.71 | 1.21 | 26.38 | 0.70 | 100.04 |
|109 | 1.85 | 5.33 | 4.15 | 0.72 | 55.66 | 1.09 | 31.35 | 0.55 | 100.70 |
|110 | 3.17 | 6.02 | 2.14 | 0.72 | 59.77 | 1.25 | 26.56 | 0.36 | 99.98 |
|111 | 3.07 | 7.24 | 1.42 | 0.86 | 59.95 | 1.30 | 26.60 | 0.35 | 100.79 |
|112 | 3.85 | 6.70 | 1.51 | 0.76 | 60.31 | 1.28 | 25.85 | 0.37 | 100.63 |
|113 | 3.11 | 6.31 | 2.29 | 0.71 | 59.54 | 1.17 | 27.83 | 0.38 | 101.34 |
|114 | 2.09 | 6.50 | 3.10 | 0.85 | 57.95 | n.d. | 30.38 | n.d. | 100.87 |
|115 | 1.78 | 5.89 | 3.61 | 0.83 | 57.04 | 0.77 | 30.39 | 0.41 | 100.72 |
|116 | 2.07 | 5.45 | 3.49 | 0.63 | 59.27 | 0.67 | 29.08 | 0.61 | 101.27 |
|117 | 3.79 | 6.11 | 1.59 | 0.80 | 59.99 | 1.31 | 26.27 | 0.39 | 100.26 |
### OtC-V 32-63 μm

|   | MgO   | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO   | ZnO   | Total  |
|---|-------|-------|-------|-------|-------|------|-------|-------|--------|
| 1 | 4.50  | 18.43 | 0.89  | 0.46  | 49.89 | 0.64 | 26.05 | n.d.  | 100.86 |
| 2 | 11.69 | 20.04 | 1.99  | 0.56  | 43.40 | 0.52 | 22.51 | n.d.  | 100.72 |
| 3 | 8.96  | 19.79 | 0.56  | 0.57  | 47.54 | 0.42 | 22.44 | n.d.  | 100.29 |
| 4 | 3.29  | 8.34  | 0.42  | 0.75  | 60.04 | 0.84 | 27.37 | n.d.  | 101.05 |
| 5 | 5.89  | 12.20 | 0.91  | 0.55  | 53.21 | n.d. | 27.26 | n.d.  | 100.02 |
| 6 | 6.51  | 14.77 | 0.94  | 0.58  | 50.51 | 0.46 | 25.61 | n.d.  | 99.38  |
| 7 | 10.73 | 19.83 | 1.98  | 0.58  | 43.36 | 0.35 | 23.23 | n.d.  | 100.07 |
| 8 | 3.38  | 7.95  | 0.48  | 0.53  | 58.72 | 0.59 | 27.98 | n.d.  | 99.63  |
| 9 | 4.75  | 10.30 | 0.47  | 0.72  | 57.42 | n.d. | 26.10 | n.d.  | 99.75  |
| 10| 0.91  | 11.67 | 3.03  | 0.47  | 49.79 | 0.74 | 33.87 | n.d.  | 100.50 |
| 11| 2.07  | 0.84  | 1.11  | 0.55  | 62.92 | 0.53 | 32.06 | 0.53  | 100.61 |
| 12| 2.89  | 12.73 | 2.79  | 0.52  | 49.90 | 0.50 | 30.20 | n.d.  | 99.52  |
| 13| 4.48  | 3.69  | 0.80  | 0.67  | 63.97 | n.d. | 27.15 | n.d.  | 100.77 |
| 14| 2.68  | 8.12  | 0.53  | 0.81  | 59.83 | 0.73 | 27.59 | n.d.  | 100.28 |
| 15| 4.08  | 10.72 | 0.51  | 0.52  | 54.38 | 0.49 | 29.00 | n.d.  | 99.69  |
| 16| 4.09  | 4.08  | n.d.  | 0.61  | 67.09 | 0.69 | 23.72 | 0.41  | 100.67 |
| 17| 6.37  | 12.58 | 1.22  | 0.80  | 53.33 | 0.63 | 25.05 | n.d.  | 99.97  |
| 18| 5.92  | 15.99 | 1.23  | 0.55  | 52.46 | 0.83 | 24.35 | n.d.  | 101.33 |
| 19| 3.84  | 6.94  | 0.48  | 0.54  | 58.78 | 0.46 | 28.96 | n.d.  | 99.99  |
| 20| 3.30  | 1.33  | 1.51  | 0.71  | 55.51 | 0.89 | 36.30 | 0.52  | 100.07 |
| 21| 1.45  | 2.66  | 1.23  | 0.71  | 64.58 | 1.15 | 27.09 | 0.2   | 99.06  |
| 22| 2.20  | 3.83  | 2.01  | 0.82  | 64.88 | 1.08 | 25.60 | 0.47  | 100.89 |
| 23| 3.42  | 7.29  | 6.68  | 0.67  | 51.15 | n.d. | 30.28 | n.d.  | 99.50  |
| 24| 5.06  | 10.37 | 0.69  | 0.63  | 56.57 | 0.61 | 25.52 | n.d.  | 99.44  |
| 25| 2.08  | 9.83  | 1.66  | 0.47  | 53.50 | 0.87 | 30.51 | n.d.  | 98.92  |
| 26| 2.80  | 8.16  | n.d.  | 0.91  | 59.26 | 0.69 | 27.36 | n.d.  | 99.18  |
| 27| 4.46  | 13.61 | 1.33  | 0.54  | 53.52 | 0.69 | 25.69 | n.d.  | 99.84  |
| 28| 4.84  | 10.83 | 0.66  | 0.53  | 55.44 | n.d. | 27.44 | n.d.  | 99.74  |

*EC-outlier grain
|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 7.17 | 25.18 | 0.35 | 0.22 | 35.89 | 0.41 | 29.72| 0.57 | 99.51 |
| 2   | 4.76 | 10.72 | n.d. | n.d. | 55.92 | 0.53 | 26.26| 0.71 | 98.90 |
| 3   | 11.90| 16.88 | 0.70 | n.d. | 50.52 | n.d. | 19.51| n.d. | 99.51 |
| 4   | 8.10 | 13.73 | n.d. | n.d. | 50.00 | 0.59 | 27.16| 0.33 | 99.91 |
| 5   | 10.93| 28.37 | 0.57 | n.d. | 37.47 | 0.43 | 22.58| 0.33 | 100.67|
| 6   | 9.25 | 21.82 | 1.27 | n.d. | 32.93 | 0.54 | 34.19| 0.33 | 100.33|
| 7   | 6.80 | 19.97 | 2.25 | 0.31 | 33.47 | 0.49 | 36.47| n.d. | 99.76 |
| 8   | 5.39 | 14.90 | 0.45 | 0.22 | 47.20 | 0.64 | 31.47| 0.55 | 100.81|
| 9   | 0.45 | 0.60  | 0.45 | 0.44 | 49.99 | 1.41 | 44.93| 1.43 | 99.71 |
| 10  | 6.03 | 15.16 | 0.39 | 0.21 | 52.15 | 0.74 | 25.56| 0.44 | 100.69|
| 11  | 1.19 | 1.44  | 0.66 | 0.34 | 57.57 | 1.93 | 33.11| 3.56 | 99.78 |
| 12  | 0.72 | 0.27  | 0.29 | n.d. | 57.60 | 7.06 | 30.54| 3.79 | 100.26|
| 13  | 4.94 | 14.47 | 0.36 | n.d. | 50.69 | 0.59 | 29.47| 0.40 | 100.92|
| 14  | 8.28 | 27.33 | 0.23 | 0.26 | 34.21 | 0.47 | 28.42| 0.32 | 99.53 |
| 15  | 1.97 | 0.67  | 0.69 | 0.25 | 42.31 | 0.92 | 53.07| 0.68 | 100.56|
| 16  | 3.53 | 0.57  | 41.86| 0.42 | n.d.  | 0.54 | 53.94| n.d. | 100.86|
| 17  | 10.85| 21.26 | 0.69 | n.d. | 50.89 | 0.53 | 15.67| n.d. | 99.89 |
| 18  | 6.75 | 14.74 | n.d. | 0.25 | 49.00 | 0.50 | 27.77| 0.56 | 99.57 |
| 19  | 11.52| 22.25 | 0.67 | 0.35 | 42.58 | 0.38 | 22.42| n.d. | 100.18|
| 20  | 5.59 | 16.71 | n.d. | 0.22 | 47.28 | 0.57 | 29.02| 0.41 | 99.81 |
| 21  | 6.32 | 5.77  | n.d. | n.d. | 65.99 | 0.63 | 21.60| 0.54 | 100.85|
| 22  | 5.54 | 16.96 | n.d. | 0.27 | 47.18 | 0.51 | 29.36| 0.56 | 100.38|
| 23  | 5.45 | 14.67 | 1.92 | 0.21 | 46.44 | 0.41 | 30.05| 0.27 | 99.41 |
| 24  | 12.80| 32.16 | 0.29 | n.d. | 40.48 | 0.41 | 14.33| n.d. | 100.47|
| 25  | 12.29| 21.67 | 0.48 | 0.17 | 49.41 | 0.38 | 16.56| n.d. | 100.97|
| 26  | 0.57 | 8.40  | 5.97 | 0.99 | 37.77 | 0.80 | 44.42| 1.43 | 100.36|
| 27  | 8.66 | 23.28 | n.d. | n.d. | 44.35 | 0.46 | 22.74| 0.41 | 99.90 |
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 28 | 13.41 | 20.54 | n.d. | 0.28 | 48.58 | 0.60 | 16.22 | n.d. | 99.63 |
| 29 | 8.83  | 15.38 | 1.30  | 0.39 | 40.51 | 0.46 | 33.34 | n.d. | 100.23 |
| 30 | 4.66  | 15.12 | n.d.  | n.d. | 49.02 | 0.69 | 29.62 | 0.66 | 99.76 |
| 31 | 1.32  | 1.62  | 1.65  | 1.05 | 38.42 | 2.38 | 51.49 | 0.61 | 98.54 |
| 32 | 13.46 | 32.22 | 0.48  | 0.17 | 31.21 | 0.33 | 21.09 | n.d. | 98.97 |
| 33 | 3.23  | 6.95  | n.d.  | 0.35 | 51.11 | 0.92 | 37.2  | 1.00 | 100.76 |
| 34 | 8.13  | 14.44 | 0.76  | 0.44 | 51.50 | 0.82 | 23.94 | 0.42 | 100.46 |
| 35 | 11.13 | 26.33 | 1.46  | 0.29 | 33.14 | 0.36 | 28.03 | n.d. | 100.73 |
| 36 | 1.61  | 0.71  | 0.84  | 0.22 | 50.47 | 0.76 | 45.11 | 0.87 | 100.60 |
| 37 | 14.00 | 22.14 | 0.63  | n.d. | 46.54 | 0.40 | 16.28 | n.d. | 99.99 |
| 38 | 3.80  | 7.56  | n.d.  | n.d. | 50.96 | 1.40 | 34.93 | 1.11 | 99.75 |
| 39 | 8.61  | 18.39 | 1.23  | n.d. | 44.99 | n.d. | 27.05 | n.d. | 100.27 |
| 40 | 6.46  | 13.56 | 0.33  | n.d. | 51.65 | n.d. | 28.75 | n.d. | 100.76 |
| 41 | 7.70  | 12.58 | 0.52  | n.d. | 52.58 | 1.07 | 25.74 | n.d. | 100.19 |
| 42 | 1.29  | 1.75  | 4.01  | n.d. | 54.47 | 2.08 | 21.27 | 15.45 | 100.30 |
| 43 | 3.04  | 2.45  | 0.70  | n.d. | 44.84 | 1.86 | 45.98 | 0.99 | 99.86 |
| 44 | 11.88 | 18.04 | 4.63  | n.d. | 31.80 | n.d. | 33.26 | n.d. | 99.62 |
| 45 | 7.09  | 22.23 | 0.42  | n.d. | 38.28 | n.d. | 32.12 | 0.56 | 100.69 |
| 46 | 7.20  | 22.17 | 0.34  | 0.32 | 47.98 | n.d. | 21.87 | n.d. | 99.88 |
| 47 | 6.36  | 24.91 | 0.38  | n.d. | 39.78 | n.d. | 27.91 | 0.43 | 99.77 |
| 48 | 0.63  | 16.19 | n.d.  | n.d. | 47.81 | 1.23 | 32.08 | 1.07 | 99.01 |
| 49 | 7.92  | 17.87 | 0.48  | n.d. | 46.95 | n.d. | 26.17 | n.d. | 99.40 |
| 50 | 14.59 | 30.8  | 0.91  | n.d. | 37.29 | n.d. | 16.79 | n.d. | 100.39 |
| 51 | 7.50  | 28.46 | 0.37  | n.d. | 38.07 | n.d. | 24.98 | 0.40 | 99.79 |
| 52 | 8.70  | 16.45 | 2.35  | 0.43 | 39.87 | n.d. | 32.68 | n.d. | 100.49 |
| 53 | 6.77  | 21.74 | n.d.  | 0.28 | 48.43 | n.d. | 22.11 | n.d. | 99.34 |
| 54 | 5.44  | 11.75 | 1.53  | 0.39 | 53.45 | 0.87 | 27.02 | n.d. | 100.46 |
| 55 | 6.69  | 20.61 | n.d.  | n.d. | 43.06 | n.d. | 29.59 | 0.74 | 100.68 |
| 56 | 9.98  | 20.21 | 1.74  | n.d. | 34.64 | n.d. | 32.50 | n.d. | 99.08 |
| 57 | 6.30  | 7.85  | n.d.  | 0.23 | 60.75 | n.d. | 23.71 | 0.35 | 99.21 |
| 58 | 13.57 | 27.08 | 1.42  | 0.30 | 32.85 | n.d. | 24.89 | n.d. | 100.11 |
| 59 | 4.31  | 27.68 | 0.55  | 0.32 | 37.83 | 2.60 | 22.96 | 3.77 | 100.02 |
| 60 | 1.69  | 1.31  | 2.96  | n.d. | 53.02 | 3.67 | 22.68 | 14.16 | 99.47 |
| 61 | 14.33 | 27.34 | 0.82  | n.d. | 36.18 | n.d. | 20.31 | n.d. | 98.98 |
| 62 | 14.19 | 19.30 | n.d.  | n.d. | 51.57 | 0.54 | 14.33 | n.d. | 99.93 |
| 63 | 1.65  | 0.59  | 0.76  | n.d. | 55.46 | 7.35 | 25.41 | 8.38 | 99.60 |
| 64 | 9.87  | 24.97 | 0.85  | n.d. | 38.26 | n.d. | 25.13 | n.d. | 99.08 |
| 65 | 11.29 | 14.98 | n.d.  | n.d. | 57.85 | 0.57 | 15.38 | n.d. | 100.08 |
| 66 | 1.62  | 1.17  | 1.66  | 0.40 | 53.52 | 6.35 | 26.36 | 10.10 | 101.18 |
| 67 | 9.53  | 22.19 | 2.54  | 0.36 | 34.40 | n.d. | 30.92 | n.d. | 99.94 |
| 68 | 0.97  | 0.34  | 0.41  | n.d. | 58.73 | 5.72 | 30.25 | 3.13 | 99.54 |
| 69 | 9.89  | 25.83 | 1.21  | n.d. | 30.81 | 0.85 | 30.81 | 0.23 | 99.62 |
| 70 | 2.32  | 13.21 | n.d.  | 0.27 | 48.30 | 0.64 | 34.92 | 0.69 | 100.35 |
| 71 | 1.06  | 3.54  | n.d.  | 0.38 | 54.97 | 3.66 | 21.91 | 15.30 | 100.83 |
| 72 | 0.78  | 27.52 | 0.30  | n.d. | 29.77 | 3.06 | 27.95 | 9.80 | 99.17 |
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 73 | 12.72 | 18.87 | 0.94 | n.d. | 47.90 | n.d. | 19.25 | n.d. | 99.68 |
| 74 | 5.24 | 12.18 | n.d. | n.d. | 62.26 | n.d. | 20.09 | 0.56 | 100.33 |
| 75 | 5.02 | 22.16 | 0.77 | 0.70 | 40.04 | 0.40 | 31.13 | 0.42 | 100.65 |
| 76 | 4.93 | 13.32 | n.d. | n.d. | 51.52 | 0.50 | 29.98 | n.d. | 100.26 |
| 77 | 10.27 | 24.89 | n.d. | n.d. | 43.06 | n.d. | 21.61 | n.d. | 99.84 |
| 78 | 7.24 | 16.43 | n.d. | 0.32 | 57.14 | 0.50 | 18.24 | 0.35 | 100.21 |
| 79 | 10.06 | 15.36 | 0.61 | n.d. | 49.02 | n.d. | 24.64 | n.d. | 99.69 |
| 80 | 12.55 | 23.05 | n.d. | 0.24 | 46.63 | 0.39 | 17.03 | n.d. | 99.90 |
| 81 | 12.61 | 20.21 | 0.44 | n.d. | 48.92 | n.d. | 18.05 | n.d. | 100.23 |
| 82 | 5.13 | 8.02 | n.d. | n.d. | 61.89 | 3.71 | 17.15 | 5.01 | 100.92 |
| 83 | 12.04 | 20.06 | n.d. | n.d. | 53.43 | n.d. | 14.32 | 0.35 | 100.19 |
| 84 | 8.44 | 20.38 | n.d. | n.d. | 52.76 | n.d. | 17.55 | n.d. | 99.14 |
| 85 | 10.16 | 26.09 | n.d. | 0.28 | 47.68 | 0.40 | 15.58 | n.d. | 100.19 |
| 86 | 8.39 | 26.91 | n.d. | n.d. | 44.61 | 0.38 | 19.46 | n.d. | 99.75 |
| 87 | 10.61 | 22.61 | n.d. | n.d. | 43.85 | 0.47 | 21.44 | n.d. | 98.99 |
| 88 | 17.18 | 12.78 | 0.34 | n.d. | 54.51 | n.d. | 15.57 | n.d. | 100.38 |
| 89 | 5.52 | 8.30 | n.d. | n.d. | 55.95 | 0.80 | 29.60 | 0.53 | 100.70 |
| 90 | 1.19 | 14.16 | 0.46 | n.d. | 46.12 | 1.09 | 34.71 | 1.65 | 99.37 |
| 91 | 11.71 | 12.81 | 0.38 | n.d. | 58.46 | n.d. | 17.74 | n.d. | 101.09 |
| 92 | 12.90 | 20.23 | 0.46 | n.d. | 41.75 | n.d. | 24.52 | n.d. | 99.86 |
| 93 | 9.53 | 9.05 | 5.43 | n.d. | 41.99 | n.d. | 33.03 | n.d. | 99.02 |
| 94 | 4.29 | 11.16 | n.d. | n.d. | 55.06 | n.d. | 28.40 | 1.20 | 100.11 |
| 95 | 11.55 | 22.59 | 0.94 | n.d. | 35.80 | n.d. | 28.61 | n.d. | 99.50 |
| 96 | 7.78 | 26.36 | 0.23 | n.d. | 39.76 | n.d. | 25.22 | 0.57 | 99.91 |
| 97 | 7.88 | 17.13 | 1.32 | 0.20 | 42.37 | n.d. | 31.39 | n.d. | 100.29 |
| 98 | 6.46 | 9.84 | n.d. | n.d. | 57.84 | 0.62 | 25.27 | n.d. | 100.03 |
| 99 | 8.88 | 6.66 | n.d. | n.d. | 65.51 | 0.80 | 18.27 | n.d. | 100.12 |
| 100 | 4.31 | 7.18 | 0.88 | n.d. | 49.05 | 3.16 | 33.89 | 0.92 | 99.39 |
| 101 | 5.54 | 21.74 | n.d. | 0.26 | 42.10 | 0.58 | 29.19 | 0.40 | 99.82 |
| 102 | 2.72 | 10.56 | 0.29 | n.d. | 56.17 | 0.66 | 28.00 | 0.62 | 99.03 |
| 103 | 3.17 | 7.44 | n.d. | n.d. | 57.62 | 0.55 | 31.66 | 0.68 | 101.11 |
| 104 | 8.09 | 21.7 | 0.40 | n.d. | 42.65 | n.d. | 27.33 | n.d. | 100.17 |
| 105 | 1.73 | 8.52 | 0.47 | n.d. | 47.53 | 0.90 | 39.24 | 0.75 | 99.13 |
| 106 | 1.43 | 3.00 | 1.40 | 0.33 | 55.07 | 1.68 | 35.28 | 2.46 | 100.66 |
| 107 | 12.15 | 19.43 | 2.79 | 0.25 | 44.23 | n.d. | 21.42 | n.d. | 100.26 |
| 108 | 9.80 | 30.18 | n.d. | n.d. | 42.64 | n.d. | 17.77 | 0.32 | 100.70 |
| 109 | 3.46 | 15.20 | 0.86 | 0.25 | 50.63 | n.d. | 29.65 | 0.58 | 100.63 |
| 110 | 9.74 | 4.98 | n.d. | n.d. | 67.59 | 3.19 | 8.04 | 5.97 | 99.50 |
| 111 | 7.79 | 4.22 | n.d. | n.d. | 60.75 | 0.45 | 26.11 | n.d. | 99.31 |
| 112 | 12.84 | 16.98 | 1.97 | n.d. | 46.82 | 0.41 | 22.30 | n.d. | 101.32 |
| 113 | 11.80 | 10.70 | 6.25 | n.d. | 41.15 | n.d. | 30.44 | n.d. | 100.34 |
| 114 | 8.10 | 30.34 | n.d. | n.d. | 35.01 | n.d. | 25.96 | 0.48 | 99.89 |
| 115 | 10.63 | 14.80 | n.d. | n.d. | 52.56 | n.d. | 21.76 | n.d. | 99.76 |
| 116 | 7.33 | 15.13 | n.d. | n.d. | 62.44 | n.d. | 14.19 | 0.62 | 99.71 |
| 117 | 6.17 | 14.04 | 0.50 | 0.28 | 54.70 | 0.87 | 23.89 | 0.94 | 101.38 |
|    |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 163| 3.88| 7.00| n.d.| n.d.| 58.96| n.d.| 29.36| 0.58| 99.79|
| 164| 13.00| 16.18| 4.88| 0.29| 38.31| 0.49| 26.49| n.d.| 99.63|
| 165| 3.47| 5.71| n.d.| n.d.| 63.98| 0.61| 25.31| 0.47| 99.54|
| 166| 3.89| 11.99| n.d.| n.d.| 51.52| 0.65| 31.59| 0.50| 100.13|
| 167| 5.13| 11.11| 0.38| n.d.| 57.59| 3.14| 9.91| 14.18| 101.44|
| 168| 6.61| 28.31| n.d.| 0.27| 36.30| n.d.| 27.09| 0.57| 99.16|
| 169| 0.75| 21.87| n.d.| n.d.| 41.10| 1.04| 32.81| 1.55| 99.11|
| 170| 3.67| 8.76| n.d.| n.d.| 59.20| 0.47| 26.93| n.d.| 99.02|
| 171| 8.87| 19.27| n.d.| n.d.| 43.57| n.d.| 27.30| 0.35| 99.35|
| 172| 4.55| 9.96| n.d.| n.d.| 54.08| 0.56| 31.24| 0.35| 100.73|
| 173| 14.44| 29.67| 0.27| n.d.| 35.11| n.d.| 20.38| n.d.| 99.86|
| 174| 5.76| 11.26| 2.52| 0.31| 39.50| n.d.| 40.57| n.d.| 99.92|
| 175| 13.46| 16.80| 2.52| 0.22| 43.83| n.d.| 22.36| n.d.| 99.19|
| 176| 11.19| 21.65| 0.99| n.d.| 37.21| n.d.| 27.77| n.d.| 98.81|
| 177| 8.01| 17.21| 0.49| n.d.| 50.06| 0.64| 23.16| 0.51| 100.08|
| 178| 5.38| 11.68| n.d.| n.d.| 56.49| n.d.| 25.60| 0.38| 99.53|
| 179| 12.26| 26.11| 0.44| n.d.| 43.57| n.d.| 17.62| n.d.| 99.99|
| 180| 6.48| 25.51| 0.26| 0.18| 36.75| 0.42| 29.27| 0.60| 99.48|
| 181| 11.36| 20.39| n.d.| 0.32| 47.93| n.d.| 19.64| n.d.| 99.65|
| 182| 11.87| 22.76| 0.93| n.d.| 35.92| 0.42| 28.19| n.d.| 100.09|
| 183| 8.50| 24.94| n.d.| n.d.| 37.50| 0.61| 27.41| 0.44| 99.41|
| 184| 4.49| 9.19| n.d.| 0.39| 58.35| 1.37| 24.77| 0.51| 99.07|
| 185| 9.23| 24.99| n.d.| n.d.| 40.03| 0.48| 24.17| 0.70| 99.61|
| 186| 4.98| 15.22| 0.37| n.d.| 49.84| n.d.| 28.34| 0.74| 99.50|
| 187| 3.93| 6.93| n.d.| n.d.| 57.25| 0.67| 30.70| 1.35| 100.83|
| 188| 4.89| 22.08| n.d.| 0.28| 43.17| 0.46| 28.11| 0.52| 99.51|
| 189| 7.94| 27.84| n.d.| 0.23| 33.51| 0.38| 28.94| 0.79| 99.64|
| 190| 12.41| 27.18| n.d.| n.d.| 37.94| n.d.| 21.54| n.d.| 99.07|
| 191| 6.62| 13.17| 1.51| n.d.| 42.73| 0.48| 35.77| n.d.| 100.28|
| 192| 8.39| 17.53| 0.43| 0.30| 48.96| n.d.| 23.79| n.d.| 99.40|
| 193| 5.95| 25.36| 0.88| 0.38| 44.80| 0.42| 21.13| 0.34| 99.27|
| 194| 16.50| 32.80| 0.38| n.d.| 34.28| n.d.| 15.40| n.d.| 99.36|
| 195| 6.94| 21.61| 0.27| n.d.| 46.62| 0.45| 23.79| 0.49| 100.18|
| 196| 4.69| 11.35| 2.71| 0.50| 41.82| 0.54| 38.52| n.d.| 100.13|
| 197| 5.53| 8.58| n.d.| n.d.| 57.94| 0.61| 26.34| 0.40| 99.40|
| 198| 5.50| 12.47| n.d.| 0.18| 57.34| 0.64| 23.76| n.d.| 99.89|
| 199| 6.26| 19.44| n.d.| 0.23| 41.45| 0.47| 30.62| 0.63| 99.09|
| 200| 4.17| 12.15| n.d.| 0.26| 53.36| 0.49| 28.29| 0.46| 99.19|
| 201| 7.07| 23.78| 0.30| 0.37| 41.48| 0.55| 26.76| n.d.| 100.30|
| 202| 9.81| 16.47| n.d.| 0.25| 53.00| 0.55| 19.90| n.d.| 99.99|
| 203| 0.28| 10.70| 0.24| n.d.| 50.80| 4.18| 29.60| 4.23| 100.02|
| 204| 3.88| 17.96| 0.96| 0.53| 35.89| 2.44| 36.23| 1.37| 99.26|
| 205| 8.40| 7.81| 0.63| n.d.| 58.25| 0.60| 24.21| n.d.| 99.90|
| 206| 5.92| 14.57| n.d.| 0.29| 50.00| 0.62| 28.55| 0.34| 100.29|
| 207| 6.03| 14.22| n.d.| n.d.| 50.40| 0.53| 27.90| n.d.| 99.09|
|   |     |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |     |     |     |     |     |     |     |     |     |     |
| 208 | 9.83 | 3.89 | 0.85 | n.d. | 66.63 | n.d. | 17.59 | n.d. | 98.79 |
| 209 | 6.86 | 6.23 | 0.24 | n.d. | 58.58 | 1.75 | 23.94 | 3.41 | 101.00 |
| 210 | 5.71 | 20.39 | 0.26 | 0.28 | 43.25 | 0.38 | 28.41 | 0.94 | 99.62 |
| 211 | 0.84 | 7.17 | 0.84 | n.d. | 33.12 | 7.47 | 30.82 | 19.78 | 100.05 |
| 212 | 0.23 | 6.89 | 0.21 | n.d. | 48.09 | 2.53 | 39.81 | 1.95 | 99.72 |
| 213 | 2.02 | 2.66 | n.d. | n.d. | 64.17 | 1.60 | 9.12 | 19.78 | 99.35 |
| 214 | 6.89 | 21.97 | 0.92 | 0.30 | 36.66 | 0.47 | 32.47 | n.d. | 99.68 |
| 215 | 4.26 | 13.82 | 0.31 | n.d. | 49.71 | 0.45 | 31.71 | 0.63 | 100.90 |
| 216 | 8.73 | 28.67 | n.d. | 0.29 | 35.87 | 0.43 | 25.94 | 0.42 | 100.35 |
| 217 | 6.51 | 24.12 | n.d. | 0.18 | 40.64 | 0.42 | 27.52 | 0.49 | 99.88 |
| 218 | 6.07 | 11.97 | 3.65 | 0.30 | 47.68 | n.d. | 30.36 | 0.26 | 100.29 |
| 219 | 0.91 | 0.24 | 0.37 | 0.42 | 68.23 | 0.88 | 30.49 | n.d. | 101.53 |
| 220 | 2.51 | 14.08 | 0.69 | 0.41 | 51.07 | 0.68 | 29.11 | 1.20 | 99.75 |
| 221 | 9.23 | 9.38 | 0.77 | n.d. | 52.20 | 0.55 | 28.20 | n.d. | 100.34 |
| 222 | 13.69 | 11.59 | 0.29 | n.d. | 56.94 | 0.50 | 17.39 | n.d. | 100.40 |
| 223 | 4.73 | 9.45 | 0.87 | n.d. | 52.50 | 1.04 | 30.77 | 0.34 | 99.70 |
| 224 | 7.63 | 19.23 | 0.49 | n.d. | 51.00 | 0.38 | 20.07 | n.d. | 98.80 |
| 225 | 6.99 | 16.54 | 0.62 | 0.39 | 49.18 | 0.48 | 26.12 | n.d. | 100.32 |
| 226 | 6.37 | 7.66 | 1.00 | 0.16 | 53.52 | 0.77 | 31.05 | n.d. | 100.54 |
| 227 | 10.05 | 24.35 | n.d. | n.d. | 43.23 | n.d. | 22.60 | 0.41 | 100.63 |
| 228 | 6.82 | 23.04 | 0.28 | n.d. | 46.35 | 0.41 | 22.22 | 0.63 | 99.76 |
| 229 | 9.64 | 16.94 | 1.56 | n.d. | 37.85 | n.d. | 33.63 | n.d. | 99.62 |
| 230 | 11.55 | 22.36 | 0.90 | 0.17 | 36.47 | n.d. | 28.02 | n.d. | 99.47 |
| 231 | 5.50 | 21.87 | 0.53 | 0.43 | 32.33 | 0.57 | 39.17 | 0.65 | 101.05 |
| 232 | 2.09 | 8.59 | 0.37 | n.d. | 53.03 | 1.60 | 33.92 | 0.52 | 100.11 |
| 233 | 7.83 | 16.05 | 1.24 | 0.27 | 47.92 | 0.48 | 26.20 | n.d. | 100.00 |
| 234 | 7.86 | 14.37 | 1.40 | n.d. | 47.42 | 0.49 | 28.96 | n.d. | 100.51 |
| 235 | 11.04 | 6.59 | 0.53 | n.d. | 50.10 | n.d. | 31.42 | n.d. | 99.68 |
| 236 | 11.60 | 22.62 | 0.99 | n.d. | 36.24 | 0.35 | 28.10 | n.d. | 99.91 |
| 237 | 5.15 | 8.46 | 0.53 | n.d. | 60.83 | 0.99 | 21.59 | 3.26 | 100.81 |
| 238 | 11.68 | 23.43 | 0.90 | 0.21 | 35.20 | 0.46 | 27.99 | 0.25 | 100.12 |
| 239 | 8.21 | 13.38 | 0.67 | n.d. | 50.70 | 0.68 | 26.01 | n.d. | 99.66 |
| 240 | 8.46 | 12.38 | 0.49 | n.d. | 53.46 | 0.65 | 24.82 | n.d. | 100.26 |
| 241 | 4.33 | 11.00 | n.d. | 0.16 | 55.67 | 0.60 | 27.84 | 0.33 | 99.92 |
| 242 | 9.22 | 16.24 | 0.55 | 0.21 | 45.92 | 0.67 | 27.46 | 0.30 | 100.56 |
| 243 | 10.04 | 19.60 | 0.23 | 0.28 | 51.06 | n.d. | 18.38 | 0.24 | 99.82 |
| 244 | 12.05 | 26.38 | 0.47 | 0.35 | 32.85 | n.d. | 28.06 | n.d. | 100.17 |
| 245 | 2.59 | 2.26 | 0.27 | n.d. | 45.75 | 0.89 | 48.31 | 0.57 | 100.65 |
| 246 | 7.73 | 14.30 | 0.29 | n.d. | 56.21 | 0.43 | 20.36 | n.d. | 99.31 |
| 247 | 5.68 | 12.26 | n.d. | 0.29 | 50.39 | 0.66 | 30.69 | 0.41 | 100.38 |
| 248 | 1.67 | 0.56 | 1.82 | 0.22 | 38.09 | 0.71 | 55.96 | 0.44 | 99.48 |
| 249 | 6.90 | 15.92 | 0.60 | n.d. | 49.33 | 0.53 | 26.72 | n.d. | 100.01 |
| 250 | 12.29 | 26.24 | 0.32 | n.d. | 45.75 | 1.07 | 13.28 | 0.25 | 99.20 |
| 251 | 11.72 | 20.66 | 1.37 | 0.28 | 38.91 | n.d. | 27.75 | n.d. | 100.67 |
| 252 | 8.01 | 15.34 | 1.26 | 0.28 | 43.36 | 0.48 | 31.83 | n.d. | 100.55 |
|    | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    | 6.37 | 14.72 | n.d. | n.d. | 54.72 | 0.50 | 24.19 | 0.28 | 100.78 | 13.33 | 24.93 | 0.71 | n.d. | 37.76 | n.d. | 23.48 | n.d. | 100.21 | 6.82 | 12.2 | n.d. | n.d. | 49.78 | 0.54 | 30.94 | 0.33 | 100.62 | 7.20 | 6.39 | n.d. | n.d. | 58.68 | 0.63 | 26.17 | 0.37 | 99.43 | 7.62 | 22.19 | 0.34 | 0.25 | 41.53 | 0.41 | 27.83 | 0.23 | 100.40 | 4.43 | 25.9 | 0.43 | n.d. | 39.41 | 0.96 | 27.82 | 0.61 | 99.55 | 0.73 | 1.02 | 0.44 | n.d. | 57.32 | 5.02 | 28.63 | 7.51 | 100.67 | 6.42 | 20.25 | 0.30 | n.d. | 46.68 | 0.56 | 25.08 | 0.51 | 99.80 | 0.41 | 7.59 | 0.21 | n.d. | 55.92 | 2.29 | 31.37 | 2.71 | 100.50 | 6.03 | 13.48 | n.d. | 0.17 | 48.48 | 0.58 | 30.45 | 0.48 | 99.68 | 5.13 | 4.47 | n.d. | n.d. | 62.24 | 0.89 | 27.22 | 0.43 | 100.38 | 8.48 | 25.75 | n.d. | 0.21 | 38.63 | 0.38 | 26.73 | 0.37 | 100.55 | 7.15 | 15.71 | 0.65 | n.d. | 48.81 | 0.46 | 27.31 | n.d. | 100.08 | 12.32 | 17.86 | 0.84 | n.d. | 43.48 | 0.39 | 25.12 | n.d. | 100.00 | 11.06 | 34.68 | 0.12 | 0.18 | 33.68 | 0.29 | 18.89 | 0.35 | 99.25 | 0.80 | 5.57 | 0.29 | 0.25 | 47.66 | 4.80 | 37.75 | 3.08 | 100.19 | 9.93 | 21.62 | n.d. | n.d. | 46.88 | 0.44 | 20.80 | 0.37 | 100.04 | 7.93 | 19.99 | n.d. | n.d. | 44.42 | 0.60 | 27.37 | 0.54 | 100.85 | 0.70 | 11.87 | 0.27 | n.d. | 53.53 | 1.30 | 31.77 | 1.76 | 101.19 | 2.43 | 12.42 | 1.66 | 0.48 | 31.97 | 0.72 | 48.83 | 0.68 | 99.20 | 5.50 | 15.23 | n.d. | 0.28 | 48.95 | 0.57 | 28.82 | 0.42 | 99.77 | 6.73 | 12.07 | 1.78 | 0.24 | 43.58 | 0.56 | 35.32 | n.d. | 100.29 | 4.42 | 3.14 | n.d. | 0.36 | 70.60 | 0.63 | 16.15 | 4.97 | 100.27 | 4.31 | 18.83 | 1.76 | 0.19 | 37.84 | 1.98 | 18.35 | 17.26 | 100.52 | 2.20 | 14.27 | 0.31 | n.d. | 53.57 | 0.55 | 28.06 | 1.32 | 100.28 | 13.02 | 24.24 | 1.31 | n.d. | 37.43 | 0.39 | 23.71 | n.d. | 100.09 | 7.19 | 16.01 | 0.74 | 0.27 | 50.69 | 0.42 | 24.50 | n.d. | 99.83 | 6.85 | 14.28 | 1.06 | 0.21 | 44.70 | 0.63 | 32.32 | 0.35 | 100.40 | 9.72 | 14.83 | 2.56 | 0.31 | 41.06 | 0.41 | 31.35 | n.d. | 100.23 | 6.26 | 7.94 | 3.01 | n.d. | 44.67 | 0.53 | 37.3 | n.d. | 99.70 | 3.97 | 14.00 | 0.24 | n.d. | 55.86 | 1.09 | 24.05 | 1.32 | 100.53 | 9.56 | 17.49 | n.d. | 0.27 | 50.65 | 0.56 | 22.39 | n.d. | 100.92 | 9.41 | 13.19 | 0.35 | n.d. | 51.39 | 0.49 | 25.60 | n.d. | 100.42 | 11.21 | 23.23 | 1.45 | 0.27 | 34.42 | 0.40 | 28.82 | n.d. | 99.78 | 5.57 | 23.94 | 0.40 | n.d. | 39.16 | 0.46 | 30.42 | 0.42 | 100.37 | 6.58 | 11.15 | n.d. | 0.26 | 50.61 | 0.72 | 30.90 | 0.50 | 100.72 | 3.66 | 8.74 | n.d. | 0.31 | 48.50 | 0.46 | 38.13 | 0.46 | 100.28 | 10.52 | 32.31 | n.d. | n.d. | 34.57 | 0.37 | 22.81 | 0.38 | 100.94 | 6.73 | 5.35 | n.d. | n.d. | 64.61 | 4.85 | 11.74 | 6.99 | 100.28 | 1.81 | 3.90 | 0.54 | 0.65 | 45.75 | 0.82 | 46.56 | 0.52 | 100.55 | 4.86 | 18.92 | 0.47 | 0.34 | 38.40 | 0.53 | 36.02 | 0.56 | 100.11 | 3.45 | 12.80 | 2.13 | 0.63 | 37.88 | 0.52 | 40.77 | 0.51 | 98.69 | 7.53 | 18.15 | n.d. | n.d. | 55.42 | 0.48 | 18.47 | 0.26 | 100.30 | 10.36 | 12.26 | 3.70 | 0.33 | 40.59 | 0.34 | 33.07 | n.d. | 100.65 | 3.93 | 16.34 | 0.40 | n.d. | 51.26 | 0.63 | 27.61 | 0.57 | 100.72 | 38
|     | 4.40 | 16.06 | 1.09 | 0.31 | 43.83 | 1.40 | 30.22 | 3.02 | 100.32 |
|---|------|-------|------|------|-------|------|-------|------|--------|
| 298| 7.30 | 19.89 | 0.24 | n.d. | 48.17 | 0.48 | 24.27 | 0.40 | 100.75 |
| 299| 5.35 | 8.84  | n.d. | n.d. | 56.75 | 0.52 | 29.02 | 0.54 | 101.03 |
| 300| 6.71 | 9.16  | 0.92 | 0.42 | 58.99 | 0.75 | 22.83 | n.d. | 99.78  |
| 301| 12.46| 25.70 | 1.22 | n.d. | 31.60 | 0.39 | 29.00 | n.d. | 100.36 |
| 302| 12.56| 24.12 | 1.51 | n.d. | 33.77 | 0.35 | 27.95 | n.d. | 100.26 |
| 303| 3.65 | 12.73 | 0.50 | n.d. | 49.75 | 0.76 | 32.21 | 0.46 | 100.06 |
| 304| 8.76 | 14.31 | 0.80 | n.d. | 47.40 | 0.59 | 27.96 | 0.30 | 100.13 |
| 305| 10.30| 19.58 | 1.08 | 0.26 | 44.38 | 0.48 | 24.26 | n.d. | 100.34 |
| 306| 9.39 | 6.04  | 0.37 | n.d. | 61.92 | 0.58 | 21.77 | n.d. | 100.07 |
| 307| 9.59 | 21.97 | 1.19 | 0.21 | 34.43 | 0.43 | 32.65 | 0.31 | 100.77 |
| 308| 7.36 | 14.37 | 0.39 | n.d. | 58.33 | 0.52 | 18.71 | n.d. | 99.67  |
| 309| 8.86 | 18.95 | 2.32 | 0.27 | 34.95 | 0.41 | 34.42 | n.d. | 100.18 |
| 310| 5.15 | 18.02 | 0.28 | n.d. | 52.22 | 0.71 | 23.36 | 0.62 | 100.36 |
| 311| 12.14| 22.87 | n.d. | n.d. | 46.62 | 0.42 | 17.66 | n.d. | 99.71  |
| 312| 5.34 | 13.16 | 5.01 | 0.32 | 30.64 | 0.45 | 45.08 | 0.20 | 100.20 |
| 313| 9.71 | 16.07 | 0.64 | n.d. | 48.49 | 0.47 | 25.57 | 0.24 | 101.19 |
| 314| 4.05 | 10.29 | n.d. | 0.22 | 52.72 | 0.83 | 31.25 | 0.50 | 99.86  |
| 315| 7.10 | 14.39 | 2.84 | 0.28 | 48.03 | 0.49 | 25.96 | n.d. | 99.09  |
| 316| 5.90 | 12.97 | 0.19 | n.d. | 53.31 | 0.56 | 26.62 | 0.25 | 99.80  |
| 317| 5.18 | 17.34 | 0.54 | n.d. | 41.49 | 1.38 | 32.71 | 0.73 | 99.38  |
| 318| 6.65 | 6.32  | n.d. | n.d. | 63.11 | 0.75 | 23.51 | 0.47 | 100.81 |
| 319| 6.08 | 7.61  | n.d. | n.d. | 66.87 | 0.78 | 19.16 | 0.36 | 100.86 |
| 320| 0.44 | 8.61  | 0.44 | n.d. | 53.42 | 1.08 | 33.52 | 1.58 | 99.11  |
| 321| 9.42 | 12.75 | 0.39 | n.d. | 45.47 | 0.66 | 29.82 | 0.51 | 99.02  |
| 322| 6.50 | 9.61  | 0.31 | n.d. | 56.57 | 0.67 | 26.70 | 0.61 | 100.96 |
| 323| 11.69| 14.15 | 2.67 | 0.28 | 43.65 | 0.39 | 26.99 | n.d. | 99.82  |
| 324| 7.15 | 8.01  | 0.33 | n.d. | 57.94 | 0.56 | 26.14 | n.d. | 100.12 |
| 325| 6.77 | 10.75 | 0.37 | n.d. | 56.01 | 0.53 | 24.98 | 0.37 | 99.79  |
| 326| 9.52 | 15.99 | 2.48 | 0.30 | 34.48 | 0.43 | 37.96 | n.d. | 101.16 |
| 327| 10.52| 13.49 | 0.26 | n.d. | 39.39 | 0.62 | 35.38 | 0.38 | 100.03 |
| 328| 11.49| 22.58 | 0.91 | n.d. | 36.96 | n.d. | 27.85 | 0.25 | 100.04 |
| 329| 4.60 | 10.62 | n.d. | n.d. | 49.90 | 0.57 | 32.73 | 0.91 | 99.33  |
| 330| 10.69| 19.52 | 0.35 | 0.25 | 35.62 | 0.48 | 33.62 | n.d. | 100.52 |
| 331| 4.42 | 2.80  | n.d. | n.d. | 59.88 | 1.30 | 30.99 | 1.01 | 100.39 |
| 332| 3.56 | 18.16 | 1.07 | n.d. | 38.11 | 0.55 | 37.32 | 0.39 | 99.16  |
| 333| 2.61 | 3.28  | n.d. | n.d. | 46.42 | 0.79 | 47.04 | 0.64 | 100.78 |
| 334| 8.70 | 29.88 | 0.21 | n.d. | 35.13 | n.d. | 25.62 | 0.41 | 99.95  |
| 335| 7.63 | 16.56 | 1.22 | 0.41 | 49.99 | 0.41 | 23.98 | n.d. | 100.20 |
| 336| 14.38| 26.68 | 0.43 | n.d. | 38.99 | 0.39 | 20.21 | n.d. | 101.07 |
| 337| 8.10 | 18.77 | 2.52 | 0.33 | 33.29 | 0.43 | 36.22 | n.d. | 99.67  |
| 338| 8.38 | 14.65 | 0.27 | n.d. | 48.85 | 0.44 | 28.11 | 0.18 | 100.87 |
| 339| 11.66| 22.27 | 0.97 | n.d. | 36.78 | 0.45 | 28.32 | n.d. | 100.45 |
| 340| 3.53 | 10.26 | n.d. | 0.18 | 51.23 | 0.75 | 34.39 | 0.60 | 100.94 |
| 341| 1.05 | 0.30  | 2.46 | 0.52 | 49.22 | 3.27 | 41.72 | 0.77 | 99.31  |
| 342|

39
|   |     |     |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 343 | 9.88 | 17.20 | 2.06 | 0.33 | 37.06 | 0.43 | 32.77 | n.d. | 99.74 |
| 344 | 11.24 | 18.73 | n.d. | 0.26 | 53.46 | n.d. | 15.26 | 0.40 | 99.36 |
| 345 | 11.48 | 22.35 | 0.85 | 0.20 | 36.71 | n.d. | 28.10 | n.d. | 99.68 |
| 346 | 11.71 | 20.04 | 2.00 | 0.28 | 35.70 | 0.40 | 30.28 | n.d. | 100.41 |
| 347 | 8.12 | 14.60 | 0.74 | n.d. | 44.08 | 0.66 | 31.52 | n.d. | 99.72 |
| 348 | 8.26 | 11.76 | n.d. | n.d. | 59.85 | 0.59 | 19.63 | 0.45 | 100.55 |
| 349 | 10.16 | 28.90 | n.d. | 0.16 | 31.76 | 0.53 | 28.25 | n.d. | 99.76 |
| 350 | 6.19 | 10.19 | n.d. | n.d. | 55.26 | 0.57 | 28.07 | 0.40 | 100.68 |
| 351 | 8.20 | 14.34 | 3.28 | 0.30 | 32.52 | 0.60 | 41.42 | 0.31 | 100.97 |
| 352 | 1.35 | 8.09 | 0.88 | n.d. | 36.89 | 0.72 | 51.44 | 0.88 | 100.24 |
| 353 | 13.55 | 18.25 | 0.31 | n.d. | 51.48 | n.d. | 16.77 | n.d. | 100.36 |
| 354 | 2.19 | 15.88 | 1.13 | 0.36 | 46.80 | 0.72 | 31.77 | 0.51 | 99.37 |
| 355 | 4.38 | 7.59 | 0.20 | n.d. | 58.29 | 1.59 | 28.20 | 0.41 | 100.66 |
| 356 | 7.67 | 25.50 | n.d. | n.d. | 40.59 | 0.43 | 25.35 | 0.48 | 100.02 |
| 357 | 6.41 | 15.58 | n.d. | 0.24 | 48.31 | 0.59 | 28.54 | 0.52 | 100.19 |
| 358 | 4.32 | 4.41 | n.d. | n.d. | 67.33 | 0.46 | 17.99 | 6.19 | 100.71 |
| 359 | 4.46 | 11.70 | n.d. | 0.31 | 54.51 | 0.54 | 28.81 | 0.39 | 100.71 |
| 360 | 6.14 | 14.80 | n.d. | 0.24 | 49.01 | 0.57 | 28.76 | 0.51 | 100.03 |
| 361 | 5.90 | 16.41 | 0.49 | n.d. | 48.54 | 0.53 | 28.14 | n.d. | 100.01 |
| 362 | 5.50 | 7.00 | n.d. | n.d. | 58.48 | 0.88 | 28.18 | 0.46 | 100.49 |
| 363 | 13.12 | 24.65 | 0.74 | n.d. | 37.14 | n.d. | 23.22 | n.d. | 98.87 |
| 364 | 1.33 | 6.26 | 0.22 | n.d. | 54.44 | 1.82 | 7.37 | 28.37 | 99.80 |
| 365 | 8.62 | 15.59 | 1.01 | 0.27 | 47.85 | 0.59 | 26.04 | n.d. | 99.97 |
| 366 | 9.25 | 14.01 | n.d. | n.d. | 50.64 | 0.51 | 25.09 | n.d. | 99.50 |
| 367 | 9.02 | 12.97 | 0.47 | n.d. | 53.50 | 0.55 | 23.15 | n.d. | 99.65 |
| 368 | 9.21 | 14.91 | 1.96 | 0.32 | 47.76 | 0.55 | 24.50 | 0.30 | 99.51 |
| 369 | 15.36 | 30.23 | 0.60 | n.d. | 35.26 | 0.23 | 18.01 | n.d. | 99.70 |
| 370 | 0.60 | 9.62 | n.d. | n.d. | 56.10 | 2.92 | 28.50 | 2.12 | 99.85 |
| 371 | 2.81 | 2.29 | 1.42 | 0.48 | 47.74 | 0.93 | 43.78 | 0.49 | 99.94 |
| 372 | 14.76 | 20.79 | 0.58 | n.d. | 49.22 | 0.45 | 14.30 | n.d. | 100.10 |
| 373 | 11.64 | 22.61 | 1.00 | n.d. | 36.56 | 0.51 | 28.21 | 0.31 | 100.85 |
| 374 | 9.91 | 24.88 | 1.06 | n.d. | 41.60 | 0.44 | 22.25 | 0.24 | 100.37 |
| 375 | 11.91 | 17.34 | 0.84 | n.d. | 42.68 | 0.49 | 26.75 | n.d. | 100.01 |
| 376 | 5.93 | 23.55 | 0.88 | 0.35 | 30.13 | 0.51 | 37.58 | 0.77 | 99.69 |
| 377 | 0.21 | 7.45 | 0.57 | n.d. | 43.70 | 1.63 | 44.60 | 1.54 | 99.70 |
| 378 | 4.44 | 12.66 | 3.60 | 0.44 | 39.33 | 1.04 | 37.02 | 0.52 | 99.05 |
| 379 | 6.03 | 15.13 | 0.75 | 0.42 | 54.52 | 0.70 | 23.16 | n.d. | 100.71 |
| 380 | 9.90 | 20.06 | n.d. | 0.13 | 48.35 | 0.51 | 21.07 | 0.28 | 100.31 |
| 381 | 11.42 | 17.16 | 1.57 | n.d. | 38.25 | n.d. | 30.70 | n.d. | 99.10 |
| 382 | 13.32 | 17.79 | 4.79 | 0.21 | 38.24 | 0.28 | 25.26 | n.d. | 99.89 |
| 383 | 11.97 | 22.37 | 1.89 | 0.24 | 33.31 | 0.41 | 29.38 | n.d. | 99.57 |
| 384 | 8.92 | 23.23 | n.d. | 0.23 | 49.85 | 0.50 | 17.66 | 0.39 | 100.77 |
| 385 | 10.47 | 25.56 | n.d. | 0.22 | 43.48 | 0.49 | 19.11 | 0.23 | 99.57 |
| 386 | 13.29 | 23.78 | 0.68 | n.d. | 39.65 | 0.40 | 22.04 | n.d. | 99.84 |
| 387 | 10.66 | 20.41 | 1.31 | n.d. | 34.05 | 0.54 | 32.22 | n.d. | 99.19 |

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|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 388 | 11.58 | 22.13 | 1.01 | n.d. | 36.63 | 0.42 | 28.51 | n.d. | 100.29 |
| 389 | 1.40 | 12.06 | 0.26 | n.d. | 54.80 | 2.72 | 27.38 | 1.20 | 99.84 |
| 390 | 11.44 | 21.26 | 1.48 | 0.22 | 34.92 | 0.32 | 31.32 | n.d. | 100.97 |
| 391 | 5.88 | 15.93 | 0.32 | n.d. | 48.62 | 0.62 | 28.33 | n.d. | 99.70 |
| 392 | 11.03 | 21.95 | 1.32 | n.d. | 33.17 | 0.40 | 31.44 | n.d. | 99.30 |
| 393 | 11.37 | 28.44 | 0.92 | 0.24 | 32.06 | 0.38 | 27.09 | n.d. | 100.51 |
| 394 | 9.56 | 23.91 | 1.98 | 0.45 | 36.15 | 0.47 | 27.92 | n.d. | 100.44 |
| 395 | 11.42 | 22.45 | 0.97 | n.d. | 36.27 | 0.25 | 28.21 | n.d. | 99.58 |
| 396 | 9.87 | 15.89 | 2.64 | 0.39 | 37.91 | 0.33 | 32.51 | n.d. | 99.55 |
| 397 | 5.20 | 10.45 | 0.23 | n.d. | 52.30 | 0.71 | 30.77 | 0.79 | 100.45 |
| 398 | 10.25 | 9.20 | n.d. | 0.23 | 62.83 | 1.10 | 16.48 | 0.52 | 100.60 |
| 399 | 7.57 | 29.68 | n.d. | n.d. | 35.33 | 0.46 | 25.28 | 0.43 | 98.75 |
| 400 | 5.64 | 8.85 | 0.22 | n.d. | 59.61 | 0.85 | 24.14 | 1.68 | 100.99 |
| 401 | 5.80 | 8.19 | n.d. | n.d. | 62.60 | 0.68 | 22.55 | n.d. | 99.82 |
| 402 | 7.18 | 14.75 | 0.58 | n.d. | 46.06 | 0.50 | 30.67 | n.d. | 99.73 |
| 403 | 11.70 | 22.57 | 0.97 | n.d. | 36.44 | 0.42 | 28.20 | n.d. | 100.31 |
| 404 | 5.09 | 17.01 | 0.35 | n.d. | 43.01 | 0.36 | 33.61 | 0.54 | 99.96 |
| 405 | 12.69 | 26.13 | 0.75 | n.d. | 35.56 | 0.42 | 24.46 | n.d. | 100.01 |
| 406 | 3.39 | 8.13 | n.d. | 0.17 | 56.17 | 0.68 | 30.25 | 0.86 | 99.65 |
| 407 | 5.44 | 5.56 | n.d. | n.d. | 58.93 | 0.65 | 28.70 | 0.38 | 99.66 |
| 408 | 9.94 | 31.53 | 0.19 | n.d. | 37.39 | n.d. | 20.08 | 0.30 | 99.43 |
| 409 | 8.95 | 7.25 | 0.73 | n.d. | 59.56 | 0.66 | 22.54 | n.d. | 99.69 |
| 410 | 4.02 | 4.85 | n.d. | n.d. | 60.44 | 0.71 | 29.42 | 0.58 | 100.01 |
| 411 | 9.75 | 19.47 | 0.38 | n.d. | 52.33 | n.d. | 17.67 | n.d. | 99.60 |
| 412 | 2.64 | 5.24 | 0.91 | n.d. | 49.81 | 0.67 | 40.26 | 0.84 | 100.36 |
| 413 | 13.79 | 27.81 | 0.64 | n.d. | 34.45 | 0.33 | 22.40 | n.d. | 99.42 |
| 414 | 12.33 | 26.87 | 0.90 | n.d. | 34.14 | n.d. | 25.40 | n.d. | 99.63 |
| 415 | 4.79 | 11.11 | n.d. | n.d. | 57.90 | 0.52 | 25.22 | 0.52 | 100.06 |
| 416 | 11.21 | 16.81 | 1.54 | n.d. | 42.67 | n.d. | 27.10 | n.d. | 99.33 |
| 417 | 3.74 | 5.43 | n.d. | n.d. | 63.19 | 0.65 | 26.87 | 0.40 | 100.29 |
| 418 | 13.65 | 17.08 | 2.72 | n.d. | 44.35 | n.d. | 22.31 | n.d. | 100.10 |
| 419 | 3.60 | 10.91 | 3.56 | 0.59 | 34.95 | 0.61 | 45.19 | 0.42 | 99.82 |
| 420 | 2.33 | 10.92 | 0.27 | n.d. | 51.24 | 0.95 | 4.50 | 30.32 | 100.53 |
| 421 | 7.35 | 13.18 | n.d. | 0.37 | 61.41 | 0.64 | 17.64 | 0.62 | 101.20 |
| 422 | 6.88 | 12.18 | n.d. | 0.23 | 50.35 | 0.61 | 29.73 | 0.42 | 100.39 |
| 423 | 11.86 | 23.17 | 1.52 | 0.21 | 33.61 | 0.39 | 28.34 | n.d. | 99.09 |
| 424 | 13.35 | 27.25 | 0.85 | n.d. | 33.67 | 0.28 | 24.23 | n.d. | 99.63 |
| 425 | 11.14 | 20.05 | 0.86 | n.d. | 40.08 | 0.39 | 27.71 | 0.26 | 100.49 |
| 426 | 10.95 | 11.92 | 2.50 | 0.23 | 45.80 | 0.47 | 28.29 | n.d. | 100.16 |
| 427 | 3.97 | 8.43 | 0.23 | n.d. | 57.75 | 0.64 | 29.16 | 0.54 | 100.71 |
| 428 | 6.03 | 5.91 | n.d. | n.d. | 61.04 | 0.97 | 24.65 | 1.16 | 99.76 |
| 429 | 9.53 | 17.55 | 0.67 | n.d. | 46.77 | 0.52 | 25.32 | n.d. | 100.35 |
| 430 | 6.11 | 14.36 | n.d. | 0.26 | 55.78 | 0.45 | 22.20 | 0.34 | 99.50 |
| 431 | 5.69 | 13.27 | n.d. | n.d. | 51.47 | 0.51 | 28.64 | 0.47 | 100.05 |
| 432 | 7.32 | 14.36 | 2.06 | 0.30 | 41.50 | 0.51 | 33.99 | n.d. | 100.03 |
|    |     |     |   |     |     |     |     |     |     |     |
|----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|
| 433| 5.55| 8.68| n.d.| n.d.| 55.01| 0.58| 30.15| 0.39| 100.36|
| 434| 8.00| 13.71| 0.60| n.d.| 52.29| 0.56| 24.87| n.d.| 100.03|
| 435| 11.04| 24.97| 1.07| n.d.| 38.23| n.d.| 24.66| n.d.| 99.98|
| 436| 6.68| 15.03| 0.61| n.d.| 51.92| 0.33| 25.38| 0.34| 100.29|
| 437| 11.06| 21.69| 1.42| 0.21| 32.64| 0.41| 32.23| n.d.| 99.66|
| 438| 14.17| 22.32| 0.17| n.d.| 47.62| n.d.| 15.74| n.d.| 100.03|
| 439| n.d.| 11.98| 0.89| 0.39| 40.10| 2.02| 42.64| 1.81| 99.83|
| 440| 9.97| 32.24| 0.34| n.d.| 29.59| 0.50| 26.65| n.d.| 99.29|
| 441| 4.05| 6.02| 3.47| 0.26| 45.76| 0.44| 39.21| n.d.| 99.21|
| 442| 3.41| 8.70| 0.31| 0.23| 40.71| 0.71| 45.31| 0.70| 100.08|
| 443| 11.62| 22.51| 0.93| 0.26| 36.37| 0.38| 28.09| n.d.| 100.16|
| 444| 2.09| 4.97| n.d.| n.d.| 63.20| 4.43| 11.68| 12.88| 99.25|
| 445| 5.77| 19.02| 0.81| 0.27| 42.80| 0.53| 30.41| 0.43| 100.04|
| 446| 4.12| 10.77| n.d.| n.d.| 54.22| 0.69| 29.01| 0.55| 99.37|
| 447| 7.12| 7.03| 0.49| n.d.| 56.48| 0.61| 28.97| 0.36| 101.06|
| 448| 7.66| 27.61| 0.22| 0.28| 33.75| 0.49| 29.56| 0.47| 100.04|
| 449| 5.12| 17.25| 1.10| 0.29| 39.05| 1.41| 35.70| 0.48| 100.41|
| 450| 7.53| 23.42| n.d.| 0.24| 37.73| 0.44| 30.81| 0.53| 100.70|
| 451| 6.94| 9.00| 6.70| 0.59| 42.24| 0.45| 34.86| n.d.| 100.79|
| 452| 6.36| 25.51| 0.25| n.d.| 38.12| 0.53| 29.34| 0.61| 100.73|
| 453| 11.74| 22.32| 0.94| n.d.| 36.64| 0.44| 27.98| n.d.| 100.07|
| 454| 2.67| 11.58| 0.94| 0.28| 45.49| 2.54| 35.00| 1.59| 100.09|
| 455| 4.26| 5.07| n.d.| n.d.| 62.40| 0.75| 26.82| n.d.| 99.30|
| 456| 4.32| 8.97| n.d.| n.d.| 58.41| 0.57| 26.91| 0.64| 99.83|
| 457| 3.98| 8.03| n.d.| n.d.| 55.02| 0.78| 32.20| 0.58| 100.59|
| 458| 8.85| 16.70| 0.38| n.d.| 49.37| 0.55| 23.24| n.d.| 99.08|
| 459| 6.25| 15.14| 0.48| 0.29| 42.32| 0.69| 35.63| 0.27| 101.07|
| 460| 14.17| 21.08| 0.23| n.d.| 47.37| 0.38| 16.97| n.d.| 100.19|
| 461| 9.14| 14.65| 2.83| 0.49| 39.00| 0.47| 33.24| n.d.| 99.81|
| 462| 5.41| 9.90| n.d.| 0.31| 52.44| 0.64| 30.33| 0.38| 99.42|
| 463| 4.61| 16.39| 1.16| 0.23| 43.79| 1.33| 31.76| 0.72| 99.99|
| 464| 3.25| 8.66| 0.80| n.d.| 56.43| 0.68| 30.17| 0.33| 100.32|
| 465| 6.66| 25.52| 0.25| 0.36| 34.57| 0.50| 32.10| 0.49| 100.46|
| 466| 3.91| 10.88| n.d.| n.d.| 59.96| 0.61| 24.13| 0.62| 100.11|
| 467| 8.07| 14.97| n.d.| n.d.| 50.75| n.d.| 25.46| 0.44| 99.69|
| 468| 1.72| 7.01| n.d.| n.d.| 68.66| 1.00| 19.55| 1.56| 99.51|
| 469| 12.33| 23.27| 1.68| 0.27| 34.04| n.d.| 28.67| n.d.| 100.25|
| 470| 4.90| 11.29| n.d.| n.d.| 58.67| n.d.| 25.76| 0.61| 101.23|
| 471| 4.60| 15.54| n.d.| n.d.| 49.13| 0.47| 30.65| 0.42| 100.80|
| 472| 0.49| 13.01| 0.29| n.d.| 48.78| 2.50| 34.53| 1.68| 101.28|
| 473| 4.31| 16.76| n.d.| 0.28| 57.83| n.d.| 20.16| 0.73| 100.07|
| 474| 3.64| 1.79| 0.35| 0.34| 62.60| n.d.| 31.66| n.d.| 100.38|
| 475| 3.41| 7.17| n.d.| n.d.| 58.06| n.d.| 29.83| 0.45| 98.93|
| 476| 5.18| 12.79| n.d.| n.d.| 54.32| n.d.| 28.23| n.d.| 100.51|
| 477| 9.61| 16.00| 2.46| 0.37| 38.83| n.d.| 33.44| n.d.| 100.71|
|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 478 | 3.00 | 7.33 | n.d. | n.d. | 55.64 | 0.62 | 32.99 | n.d. | 99.58 |
| 479 | 3.66 | 9.41 | n.d. | n.d. | 53.68 | 0.74 | 32.17 | 0.42 | 100.07 |
| 480 | 7.30 | 17.61 | n.d. | n.d. | 51.81 | 0.55 | 22.48 | n.d. | 99.75 |
| 481 | 3.04 | 12.56 | 0.81 | n.d. | 52.91 | n.d. | 31.06 | n.d. | 100.39 |
| 482 | 5.51 | 16.32 | 0.32 | 0.25 | 37.16 | n.d. | 40.48 | n.d. | 100.04 |
| 483 | 4.81 | 9.60 | n.d. | n.d. | 53.85 | n.d. | 31.45 | n.d. | 99.72 |
| 484 | 5.02 | 7.68 | n.d. | n.d. | 60.10 | n.d. | 28.12 | n.d. | 100.92 |
| 485 | 9.79 | 23.63 | n.d. | n.d. | 46.57 | n.d. | 20.33 | n.d. | 100.32 |
| 486 | 0.35 | 18.42 | 0.32 | n.d. | 53.75 | 1.03 | 26.31 | 0.98 | 101.17 |
| 487 | n.d. | 5.50 | n.d. | n.d. | 50.10 | 2.45 | 40.20 | 1.71 | 99.96 |
| 488 | 8.62 | 7.89 | n.d. | n.d. | 63.03 | n.d. | 20.59 | n.d. | 100.12 |
| 489 | 5.63 | 18.38 | 0.39 | n.d. | 43.01 | n.d. | 31.44 | 0.40 | 99.25 |
| 490 | 4.52 | 11.30 | n.d. | n.d. | 54.21 | 0.56 | 29.88 | n.d. | 100.46 |
| 491 | 2.96 | 9.74 | 0.72 | n.d. | 57.98 | n.d. | 28.45 | 0.63 | 100.48 |
| 492 | 4.59 | 8.81 | n.d. | n.d. | 54.69 | n.d. | 32.29 | n.d. | 100.38 |
| 493 | 9.71 | 19.92 | n.d. | n.d. | 45.49 | n.d. | 25.24 | n.d. | 100.36 |
| 494 | 3.95 | 6.50 | n.d. | n.d. | 62.56 | n.d. | 27.33 | n.d. | 100.34 |
| 495 | 12.02 | 16.88 | 3.73 | n.d. | 40.55 | n.d. | 27.68 | n.d. | 100.85 |
| 496 | 11.08 | 19.59 | 0.93 | n.d. | 41.07 | n.d. | 28.32 | n.d. | 101.00 |
| 497 | 2.94 | 2.94 | n.d. | n.d. | 50.71 | 0.57 | 41.79 | 1.24 | 100.20 |
| 498 | 4.97 | 9.44 | n.d. | n.d. | 57.35 | n.d. | 27.90 | n.d. | 99.67 |
| 499 | 7.95 | 16.82 | 0.61 | n.d. | 46.09 | n.d. | 28.14 | n.d. | 99.62 |
| 500 | 10.18 | 9.96 | n.d. | n.d. | 58.04 | 0.56 | 20.67 | n.d. | 99.40 |
| 501 | 7.89 | 13.07 | 1.77 | 0.27 | 41.60 | n.d. | 35.78 | n.d. | 100.37 |
| 502 | 5.27 | 12.62 | n.d. | n.d. | 54.86 | 0.59 | 27.30 | n.d. | 100.64 |
| 503 | 6.00 | 12.83 | 2.90 | n.d. | 39.54 | n.d. | 37.28 | n.d. | 98.54 |
| 504 | 6.14 | 21.35 | 0.74 | 0.32 | 41.43 | n.d. | 29.08 | 0.60 | 99.66 |
| 505 | 13.64 | 17.94 | 1.70 | n.d. | 49.29 | n.d. | 16.96 | n.d. | 99.53 |
| 506 | 4.23 | 11.47 | 0.29 | n.d. | 51.11 | 0.37 | 32.37 | 0.47 | 100.30 |
| 507 | 4.39 | 11.46 | n.d. | n.d. | 54.09 | 0.57 | 28.36 | 0.53 | 99.41 |
| 508 | 11.74 | 20.94 | 0.22 | 0.16 | 49.58 | n.d. | 17.11 | n.d. | 99.76 |
| 509 | 6.83 | 8.72 | 0.28 | n.d. | 59.47 | 0.53 | 23.07 | n.d. | 98.90 |
| 510 | 9.94 | 17.43 | 0.66 | n.d. | 43.34 | n.d. | 28.05 | n.d. | 99.42 |
| 511 | 10.05 | 16.85 | 1.70 | n.d. | 38.82 | n.d. | 31.99 | n.d. | 99.40 |
| 512 | 9.58 | 17.56 | 1.93 | 0.28 | 33.93 | n.d. | 36.52 | n.d. | 99.80 |
| 513 | 11.10 | 20.56 | 0.25 | n.d. | 46.47 | n.d. | 21.40 | n.d. | 99.78 |
| 514 | 4.70 | 12.52 | 0.96 | n.d. | 52.95 | 0.76 | 28.09 | 0.63 | 100.61 |
| 515 | 7.18 | 6.13 | 0.35 | n.d. | 61.12 | n.d. | 24.92 | n.d. | 99.71 |
| 516 | 0.83 | 18.68 | n.d. | n.d. | 40.41 | 1.18 | 35.82 | 2.48 | 99.40 |
| 517 | 9.83 | 15.69 | n.d. | 0.29 | 56.64 | n.d. | 17.06 | n.d. | 99.51 |
| 518 | 13.59 | 15.74 | n.d. | n.d. | 46.80 | 0.75 | 22.01 | 0.79 | 99.69 |
| 519 | 5.41 | 5.90 | n.d. | n.d. | 56.63 | 0.73 | 29.95 | 0.51 | 99.13 |
| 520 | 3.74 | 8.41 | n.d. | n.d. | 59.87 | 0.56 | 25.62 | 0.44 | 98.63 |
| 521 | 6.20 | 13.57 | 1.85 | 0.39 | 40.41 | 2.19 | 33.78 | 0.68 | 99.07 |
| 522 | 10.91 | 16.52 | 2.90 | n.d. | 40.79 | n.d. | 28.89 | n.d. | 100.01 |
| 523  | 11.30 | 21.26  | 1.27 | n.d. | 36.64 | n.d. | 28.48 | n.d. | 98.96 |
| 524  | 4.56  | 13.43  | 0.27 | n.d. | 56.51 | n.d. | 25.04 | n.d. | 99.81 |
| 525  | 10.73 | 16.00  | 2.68 | n.d. | 40.98 | n.d. | 29.28 | n.d. | 99.67 |
| 526  | 12.14 | 22.65  | 1.65 | 0.26 | 33.85 | 0.56 | 28.76 | n.d. | 99.86 |
| 527  | 12.25 | 14.85  | n.d. | n.d. | 56.93 | n.d. | 16.12 | n.d. | 100.16 |
| 528  | 11.04 | 15.47  | 0.50 | n.d. | 50.00 | n.d. | 22.24 | n.d. | 99.25 |
| 529  | 4.58  | 12.29  | n.d. | n.d. | 51.43 | n.d. | 30.33 | 0.38 | 99.01 |
| 530  | 6.94  | 16.79  | n.d. | n.d. | 49.28 | n.d. | 26.50 | 0.83 | 100.35 |
| 531  | 12.78 | 16.22  | 1.23 | n.d. | 49.45 | n.d. | 20.78 | n.d. | 100.46 |
| 532  | 9.58  | 17.58  | n.d. | n.d. | 55.80 | 0.42 | 15.78 | 0.57 | 99.73 |
| 533  | 8.00  | 16.39  | 0.42 | n.d. | 52.04 | n.d. | 22.20 | n.d. | 99.06 |
| 534  | 4.44  | 11.70  | 0.73 | n.d. | 57.67 | 0.53 | 24.91 | 0.34 | 100.3 |
| 535  | 7.34  | 10.53  | 2.03 | 0.30 | 46.21 | n.d. | 32.97 | n.d. | 99.38 |
| 536  | 10.74 | 16.48  | 1.44 | n.d. | 39.20 | 0.63 | 30.65 | n.d. | 99.13 |
| 537  | 4.25  | 8.44   | 0.71 | n.d. | 58.79 | 1.83 | 24.97 | 0.84 | 99.83 |
| 538  | 8.70  | 30.75  | n.d. | 0.25 | 38.02 | n.d. | 21.61 | 0.40 | 99.72 |
| 539  | 0.56  | 11.73  | 0.64 | 0.41 | 46.11 | 0.73 | 38.83 | 0.66 | 99.65 |
| 540  | 8.36  | 19.44  | 0.33 | 0.22 | 49.28 | n.d. | 21.91 | n.d. | 99.53 |
| 541  | 6.94  | 24.25  | 0.68 | 0.25 | 39.71 | 0.43 | 27.21 | 0.36 | 99.84 |
| 542  | 8.20  | 12.27  | 0.87 | n.d. | 46.76 | n.d. | 31.61 | n.d. | 99.71 |
| 543  | 4.42  | 8.57   | n.d. | n.d. | 59.20 | 0.63 | 27.52 | n.d. | 100.33 |
| 544  | 4.24  | 15.47  | 0.44 | 0.39 | 41.62 | n.d. | 37.29 | 0.37 | 99.82 |
| 545  | 6.54  | 10.41  | 0.36 | 0.37 | 47.70 | 1.05 | 33.70 | n.d. | 100.13 |
| 546  | 9.98  | 23.82  | 0.90 | n.d. | 38.18 | n.d. | 26.24 | n.d. | 99.13 |
| 547  | 7.38  | 17.18  | n.d. | 0.30 | 44.66 | 0.50 | 28.97 | 0.47 | 99.47 |
| 548  | 5.57  | 13.73  | 0.53 | n.d. | 55.38 | 0.51 | 23.28 | n.d. | 99.01 |
| 549  | 6.61  | 5.14   | n.d. | n.d. | 67.28 | 2.66 | 17.98 | 1.01 | 100.68 |
| 550  | 10.73 | 8.53   | 5.76 | n.d. | 44.28 | n.d. | 30.21 | n.d. | 99.52 |
| 551  | 5.23  | 10.25  | 0.31 | n.d. | 55.64 | 0.67 | 28.06 | 0.50 | 100.66 |
| 552  | 7.83  | 13.45  | 2.73 | 0.35 | 32.43 | n.d. | 42.02 | n.d. | 98.81 |
| 553  | 7.00  | 22.31  | 0.74 | n.d. | 41.32 | n.d. | 27.60 | 0.46 | 99.43 |
| 554  | 15.50 | 16.60  | 1.01 | n.d. | 50.83 | n.d. | 15.95 | n.d. | 99.89 |
| 555  | 2.95  | 6.26   | 0.28 | 0.28 | 48.75 | 1.18 | 40.87 | 0.49 | 100.78 |
| 556  | 3.37  | 6.85   | n.d. | n.d. | 57.75 | n.d. | 29.78 | 0.55 | 98.30 |
| 557  | 7.76  | 27.05  | n.d. | n.d. | 34.90 | 0.40 | 28.25 | 0.56 | 98.93 |
| 558  | 13.22 | 23.68  | 0.99 | n.d. | 40.16 | n.d. | 21.21 | n.d. | 99.25 |
| 559  | 5.68  | 14.97  | 0.43 | n.d. | 58.31 | 0.63 | 16.94 | 3.54 | 100.50 |
| 560  | 9.42  | 14.02  | n.d. | n.d. | 57.18 | 0.44 | 19.62 | n.d. | 100.69 |
| 561  | 7.41  | 16.95  | n.d. | n.d. | 51.31 | n.d. | 23.07 | n.d. | 98.73 |
| 562  | 11.92 | 19.16  | 2.09 | n.d. | 39.90 | n.d. | 27.19 | n.d. | 100.26 |
| 563  | 11.64 | 17.02  | 1.29 | 0.16 | 39.49 | 0.41 | 29.65 | n.d. | 99.66 |
| 564  | 6.71  | 21.96  | 0.39 | n.d. | 43.51 | n.d. | 26.13 | n.d. | 98.71 |
| 565  | 9.99  | 21.71  | n.d. | n.d. | 44.60 | 0.41 | 23.71 | n.d. | 100.42 |
| 566  | 12.90 | 28.45  | 0.98 | n.d. | 31.13 | n.d. | 25.71 | n.d. | 99.17 |
| 567  | 2.58  | 16.72  | 0.40 | n.d. | 47.20 | 0.82 | 24.81 | 6.49 | 99.02 |
|    | 8.16 | 29.91 | n.d.  | 0.30 | 30.53 | n.d.  | 30.73 | 0.46 | 100.09 |
|----|------|-------|-------|------|-------|-------|-------|------|--------|
| 568| 10.42| 22.89 | 0.35  | n.d. | 46.43 | 0.46  | 19.37 | n.d. | 99.92  |
| 569| 12.09| 23.07 | 1.76  | n.d. | 34.12 | n.d.  | 28.21 | n.d. | 99.25  |
| 570| 4.14 | 13.50 | 0.70  | n.d. | 44.50 | 0.63  | 14.46 | 23.22 | 101.16 |
| 571| 9.55 | 16.37 | 1.29  | n.d. | 51.16 | 1.16  | 20.53 | n.d. | 100.06 |
| 572| 10.76| 24.23 | 0.70  | 0.27 | 33.63 | 0.48  | 30.17 | n.d. | 100.25 |
| 573| 3.36 | 12.27 | 0.66  | n.d. | 49.91 | 1.32  | 31.66 | 0.90  | 100.08 |
| 574| 4.06 | 1.90  | n.d.  | n.d. | 68.12 | 0.72  | 23.28 | 1.56  | 99.65  |
| 575| 11.19| 16.40 | 1.41  | 0.21 | 38.94 | n.d.  | 31.07 | n.d. | 99.22  |
| 576| 8.85 | 18.74 | 0.43  | n.d. | 50.22 | 0.43  | 22.05 | n.d. | 100.72 |
| 577| 15.06| 23.46 | 0.32  | n.d. | 45.77 | n.d.  | 14.80 | n.d. | 99.41  |
| 578| 6.00 | 18.40 | 0.52  | n.d. | 42.13 | n.d.  | 32.37 | n.d. | 99.42  |
| 579| 5.48 | 14.46 | 0.31  | n.d. | 51.06 | n.d.  | 27.76 | 0.48  | 99.55  |
| 580| 3.41 | 8.26  | n.d.  | n.d. | 43.59 | 0.67  | 43.74 | n.d. | 99.67  |
| 581| 5.57 | 10.46 | 2.13  | 0.44 | 55.54 | n.d.  | 24.94 | n.d. | 99.08  |
| 582| 14.77| 23.37 | n.d.  | n.d. | 47.44 | n.d.  | 13.54 | n.d. | 99.12  |
| 583| 12.65| 15.35 | 1.13  | n.d. | 50.37 | 0.50  | 19.86 | n.d. | 99.86  |
| 584| 9.43 | 26.19 | n.d.  | n.d. | 45.06 | n.d.  | 19.45 | 0.40  | 100.53 |
| 585| 2.52 | 4.63  | 0.65  | n.d. | 39.83 | 0.70  | 51.24 | n.d. | 99.57  |
| 586| 8.55 | 5.35  | n.d.  | n.d. | 64.50 | n.d.  | 22.40 | n.d. | 100.80 |
| 587| 10.59| 16.31 | 0.91  | 0.29 | 43.22 | n.d.  | 28.56 | n.d. | 99.87  |
| 588| 7.22 | 7.37  | 0.55  | n.d. | 58.41 | n.d.  | 25.71 | n.d. | 99.26  |
| 589| 7.37 | 9.52  | n.d.  | n.d. | 58.41 | 0.41  | 24.61 | 0.39  | 100.71 |
| 590| 3.01 | 6.83  | 0.22  | n.d. | 50.37 | n.d.  | 39.22 | 0.47  | 100.13 |
| 591| 8.95 | 20.71 | 0.37  | n.d. | 49.92 | n.d.  | 19.14 | n.d. | 99.08  |
| 592| 3.87 | 10.27 | 0.52  | n.d. | 51.32 | n.d.  | 33.73 | 0.50  | 100.21 |
| 593| 6.53 | 10.98 | n.d.  | n.d. | 53.53 | 0.59  | 28.58 | n.d. | 100.20 |
| 594| 10.80| 10.27 | n.d.  | n.d. | 56.35 | n.d.  | 22.00 | n.d. | 99.41  |
| 595| 7.08 | 15.89 | 1.19  | n.d. | 45.69 | n.d.  | 29.66 | n.d. | 99.51  |
| 596| 5.37 | 11.70 | n.d.  | n.d. | 51.82 | n.d.  | 30.19 | 0.46  | 99.54  |
| 597| 11.11| 19.49 | 0.40  | n.d. | 48.52 | n.d.  | 19.86 | n.d. | 99.39  |
| 598| 4.23 | 13.48 | n.d.  | 0.28 | 48.75 | 0.59  | 31.26 | 0.44  | 99.03  |
| 599| 13.13| 19.71 | 3.53  | 0.26 | 38.38 | n.d.  | 24.57 | n.d. | 99.59  |
| 600| 7.68 | 16.45 | 1.21  | n.d. | 45.32 | n.d.  | 29.07 | n.d. | 99.73  |
| 601| 9.22 | 14.49 | n.d.  | n.d. | 53.74 | 0.46  | 21.91 | n.d. | 99.81  |
| 602| 5.57 | 12.94 | n.d.  | n.d. | 53.97 | 0.57  | 26.69 | n.d. | 99.74  |
| 603| 4.03 | 11.56 | n.d.  | 0.24 | 51.73 | 0.49  | 31.70 | 0.47  | 100.22 |
| 604| 10.68| 14.98 | 2.34  | n.d. | 45.41 | n.d.  | 27.68 | n.d. | 101.10 |
| 605| 13.65| 17.78 | 4.27  | n.d. | 42.32 | n.d.  | 22.04 | n.d. | 100.05 |
| 606| 3.74 | 17.80 | n.d.  | n.d. | 51.57 | 1.04  | 23.53 | 1.68  | 99.36  |
| 607| 4.61 | 11.72 | n.d.  | n.d. | 51.72 | 0.60  | 31.75 | 0.37  | 100.77 |
| 608| 6.89 | 13.56 | 1.36  | 0.37 | 33.27 | n.d.  | 41.67 | n.d. | 98.63  |
| 609| 10.22| 15.85 | 2.58  | 0.29 | 38.68 | 0.46  | 31.86 | n.d. | 99.94  |
| 610| 6.65 | 11.64 | n.d.  | n.d. | 55.48 | 0.61  | 25.44 | n.d. | 99.81  |
| 611| 14.04| 24.45 | 0.57  | n.d. | 40.09 | n.d.  | 21.01 | n.d. | 100.16 |
|    |     |     |     |    |     |    |    |    |    |
|----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 613| 10.02| 18.02| 0.45| n.d.| 48.36| n.d.| 23.11| n.d.| 99.96|
| 614| 9.76 | 8.37 | n.d.| n.d.| 61.22| 0.66| 21.20| n.d.| 101.21|
| 615| 8.32 | 27.13| n.d.| n.d.| 38.47| n.d.| 25.27| 0.42| 99.61|
| 616| 5.51 | 17.68| n.d.| n.d.| 49.19| 0.52| 26.46| n.d.| 99.36|
| 617| 6.31 | 13.48| 0.99| n.d.| 44.44| 0.58| 34.56| n.d.| 100.36|
| 618| 5.72 | 4.77 | n.d.| n.d.| 72.23| n.d.| 17.02| n.d.| 99.74|
| 619| 5.26 | 8.36 | n.d.| n.d.| 54.54| 0.62| 30.56| 1.09| 100.43|
| 620| 11.01| 13.60| 3.38| n.d.| 39.56| n.d.| 32.26| n.d.| 99.80|
| 621| 11.53| 20.35| n.d.| n.d.| 49.16| n.d.| 17.92| n.d.| 98.96|
| 622| 5.80 | 22.48| 0.35| n.d.| 39.50| 1.02| 30.02| 0.85| 100.02|
| 623| 1.27 | 1.83 | 0.75| 0.36| 45.61| 4.49| 43.76| 1.62| 99.68|
| 624| 5.47 | 23.23| 0.20| n.d.| 48.82| n.d.| 22.23| n.d.| 99.95|
| 625| 12.66| 31.25| 0.64| n.d.| 32.10| n.d.| 22.70| n.d.| 99.35|
| 626| 9.89 | 14.98| 2.93| 0.33| 41.68| n.d.| 29.81| n.d.| 99.62|
| 627| 10.77| 21.40| 0.84| 0.39| 42.68| n.d.| 23.39| n.d.| 99.47|
| 628| 4.95 | 11.02| n.d.| n.d.| 53.26| n.d.| 29.22| 0.87| 99.31|
| 629| 14.13| 18.23| 2.50| n.d.| 44.13| n.d.| 21.14| n.d.| 100.13|
| 630| 13.95| 20.95| 0.34| n.d.| 45.06| 0.35| 19.32| n.d.| 99.98|
| 631| 7.47 | 5.44 | n.d.| n.d.| 64.83| 3.03| 17.77| 1.07| 99.61|
| 632| 8.83 | 18.94| 0.40| n.d.| 48.78| 0.40| 21.63| n.d.| 98.99|
| 633| 8.02 | 14.94| 2.53| n.d.| 43.66| n.d.| 29.92| n.d.| 99.06|
| 634| 7.81 | 20.24| 1.91| 0.34| 39.53| n.d.| 29.79| n.d.| 99.61|
| 635| 4.53 | 9.43 | 0.34| n.d.| 56.25| n.d.| 29.18| n.d.| 99.74|
| 636| 7.54 | 14.71| 0.39| n.d.| 52.91| n.d.| 24.20| 0.54| 100.29|
| 637| 0.66 | 12.87| 0.25| n.d.| 55.06| 0.98| 28.21| 1.45| 99.47|
| 638| 5.23 | 9.20 | n.d.| n.d.| 55.98| n.d.| 29.11| n.d.| 99.52|
| 639| 10.71| 21.00| 0.68| n.d.| 43.62| n.d.| 22.94| 0.23| 99.18|
| 640| 6.95 | 24.49| n.d.| n.d.| 42.53| 0.42| 25.98| 0.43| 100.81|
| 641| 10.43| 5.63 | 0.26| n.d.| 62.22| n.d.| 20.75| n.d.| 99.30|
| 642| 7.36 | 12.66| 1.86| 0.30| 43.37| 0.48| 32.91| n.d.| 98.94|
| 643| 13.36| 24.32| 0.38| n.d.| 41.66| n.d.| 20.13| n.d.| 99.86|
| 644| 10.56| 20.17| 0.35| n.d.| 49.40| n.d.| 18.86| n.d.| 99.33|
| 645| 4.42 | 12.11| 0.48| n.d.| 50.51| 0.46| 30.87| n.d.| 98.85|
| 646| 8.68 | 19.32| 0.69| 0.41| 50.40| 0.94| 19.73| n.d.| 100.17|
| 647| 10.59| 23.37| 3.08| 0.40| 33.78| n.d.| 28.23| n.d.| 99.45|
| 648| 8.80 | 11.55| 0.90| n.d.| 51.39| 0.45| 26.37| n.d.| 99.46|
| 649| 15.10| 30.16| 1.48| 0.35| 32.32| n.d.| 19.42| n.d.| 98.82|
| 650| 9.88 | 15.67| 2.55| 0.31| 47.35| n.d.| 23.80| n.d.| 99.56|
| 651| 11.60| 25.04| 0.92| n.d.| 39.07| n.d.| 23.11| n.d.| 99.73|
| 652| 13.54| 27.18| 1.35| n.d.| 32.94| n.d.| 24.47| n.d.| 99.47|
| 653| 2.63 | 13.87| 1.67| 1.02| 41.93| 0.58| 38.86| n.d.| 100.55|
| 654| 4.77 | 16.45| 0.36| n.d.| 46.86| 0.55| 30.48| n.d.| 99.47|
| 655| 10.74| 29.86| n.d.| n.d.| 36.21| n.d.| 23.33| 0.38| 100.53|
| 656| 6.72 | 18.32| 0.61| n.d.| 46.34| n.d.| 27.04| n.d.| 99.03|
| 657| 3.42 | 15.32| 0.41| 0.26| 37.32| 0.52| 42.33| 0.49| 100.08|
|   |     |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 658| 8.17| 14.05| 59.70| n.d.| 17.68| n.d.| 0.83| n.d.| 100.43|     |
| 659| 7.24| 25.80| n.d.| 0.24| 41.53| 0.41| 23.80| n.d.| 99.02|     |
| 660| 10.22| 29.10| n.d.| n.d.| 37.29| n.d.| 22.76| n.d.| 99.37|     |
| 661| 9.19| 4.41| n.d.| n.d.| 64.48| 1.35| 20.44| 0.77| 100.63|     |
| 662| 0.20| 8.66| 0.94| 4.27| 40.85| 0.92| 43.09| 1.46| 100.38|     |
| 663| 6.96| 23.68| 0.60| n.d.| 35.91| 0.50| 31.63| n.d.| 99.28|     |
| 664| 4.71| 10.70| 0.44| 0.41| 55.60| 0.59| 28.09| n.d.| 100.53|     |
| 665| 7.02| 14.19| n.d.| n.d.| 58.01| n.d.| 21.97| n.d.| 101.19|     |
| 666| 11.70| 29.91| 0.71| n.d.| 34.19| n.d.| 23.46| n.d.| 99.98|     |
| 667| 6.80| 20.60| 0.39| n.d.| 48.11| n.d.| 23.23| n.d.| 99.14|     |
| 668| 9.57| 17.24| 3.48| 0.50| 36.20| n.d.| 32.13| n.d.| 99.12|     |
| 669| 6.47| 11.85| n.d.| n.d.| 54.69| n.d.| 26.19| n.d.| 99.20|     |
| 670| 12.04| 18.57| 0.22| n.d.| 55.25| n.d.| 14.71| n.d.| 100.79|     |
| 671| 7.63| 25.03| n.d.| 0.31| 38.53| n.d.| 28.04| 0.49| 100.04|     |
| 672| 2.08| 6.62| n.d.| n.d.| 53.32| 0.93| 35.89| 1.08| 99.92|     |
| 673| 8.79| 14.19| 1.86| 0.31| 43.11| 0.50| 30.42| n.d.| 99.18|     |
| 674| 5.84| 9.99| 3.00| 0.37| 47.27| n.d.| 33.68| n.d.| 100.14|     |
| 675| 4.28| 12.41| n.d.| 0.29| 50.47| 0.50| 32.28| 0.52| 100.74|     |
| 676| 5.82| 14.75| n.d.| n.d.| 54.60| n.d.| 24.08| n.d.| 99.25|     |
| 677| 7.12| 14.93| 1.47| n.d.| 49.30| 0.46| 27.78| n.d.| 101.06|     |
| 678| 3.50| 9.16| n.d.| n.d.| 53.24| 0.56| 33.12| 0.50| 100.09|     |
| 679| 8.81| 24.88| n.d.| n.d.| 47.23| n.d.| 18.12| 0.42| 99.47|     |
| 680| 7.44| 14.69| n.d.| n.d.| 46.98| 0.47| 30.20| n.d.| 99.79|     |
| 681| 2.16| 0.33| 3.74| 0.97| 39.95| 1.09| 51.75| n.d.| 99.99|     |
| 682| 9.35| 24.73| 2.08| 0.52| 34.51| n.d.| 27.85| n.d.| 99.05|     |
| 683| 10.63| 13.76| 3.00| n.d.| 40.56| n.d.| 31.40| n.d.| 99.35|     |
| 684| 4.16| 21.37| 0.52| 0.67| 34.32| 0.60| 38.09| n.d.| 99.73|     |
| 685| 10.53| 29.49| n.d.| n.d.| 35.34| 0.30| 24.67| n.d.| 100.33|     |
| 686| 7.55| 12.94| 0.26| n.d.| 53.09| n.d.| 25.38| n.d.| 99.23|     |
| 687| 6.59| 19.62| n.d.| n.d.| 48.99| n.d.| 25.43| 0.57| 101.20|     |
| 688| 11.12| 29.12| n.d.| n.d.| 36.96| n.d.| 22.22| 0.30| 99.72|     |
| 689| 10.04| 19.69| 1.80| n.d.| 43.75| 1.14| 23.33| 0.72| 100.46|     |
| 690| 10.37| 12.76| n.d.| n.d.| 53.70| n.d.| 22.47| n.d.| 99.20|     |
| 691| 5.93| 15.47| 1.45| n.d.| 53.74| 0.56| 22.37| n.d.| 99.52|     |
| 692| 5.33| 7.33| n.d.| n.d.| 62.72| n.d.| 23.60| n.d.| 98.98|     |
| 693| 9.11| 18.10| 2.53| n.d.| 45.32| n.d.| 23.74| n.d.| 98.79|     |
| 694| 9.88| 7.75| n.d.| n.d.| 64.84| n.d.| 17.74| 0.27| 100.48|     |
| 695| 4.37| 10.53| n.d.| n.d.| 56.28| n.d.| 27.65| 0.42| 99.24|     |
| 696| 5.40| 10.55| 0.31| n.d.| 58.21| n.d.| 25.25| n.d.| 99.72|     |
| 697| 10.55| 20.05| 1.92| n.d.| 37.37| n.d.| 30.14| n.d.| 100.02|     |
| 698| 8.80| 14.77| 2.68| 0.44| 40.43| n.d.| 32.54| n.d.| 99.66|     |
| 699| 6.95| 17.79| 0.40| n.d.| 45.08| n.d.| 28.48| n.d.| 98.70|     |
| 700| 6.25| 9.40| 0.60| n.d.| 59.85| 0.52| 22.41| n.d.| 99.03|     |
| 701| 10.09| 22.33| 1.85| 0.35| 35.83| n.d.| 29.31| n.d.| 99.75|     |
| 702| 11.26| 17.86| 2.17| n.d.| 40.74| n.d.| 27.81| n.d.| 99.86|     |
|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 703| 7.58| 25.7| n.d.| 0.26| 41.79| n.d.| 24.04| 0.36| 99.73|
| 704| 5.92| 12.21| n.d.| n.d.| 53.74| 0.49| 26.94| 0.43| 99.73|
| 705| 4.01| 9.03| 2.99| 0.45| 38.48| 0.48| 43.89| n.d.| 99.33|
| 706| 6.81| 9.95| 2.70| 0.40| 41.09| 0.51| 37.85| n.d.| 99.31|
| 707| 11.89| 21.38| n.d.| n.d.| 48.77| n.d.| 17.54| n.d.| 99.58|
| 708| 5.04| 8.80| n.d.| 0.32| 65.45| n.d.| 19.24| n.d.| 98.85|
| 709| 4.37| 11.58| n.d.| n.d.| 53.84| 0.51| 28.35| 0.53| 99.18|
| 710| 13.16| 14.66| n.d.| n.d.| 57.30| n.d.| 14.51| n.d.| 99.63|
| 711| 12.81| 18.11| 1.46| n.d.| 42.51| n.d.| 24.25| n.d.| 99.15|
| 712| 4.87| 15.29| 0.32| n.d.| 39.67| 0.43| 38.79| 0.49| 99.86|
| 713| 4.79| 9.41| n.d.| n.d.| 57.95| 0.53| 26.54| 0.46| 99.67|
| 714| 11.73| 16.03| n.d.| n.d.| 53.31| n.d.| 18.96| n.d.| 100.04|
| 715| 3.28| 21.28| n.d.| n.d.| 42.08| 1.10| 30.28| 1.87| 99.90|
| 716| 10.74| 19.22| 0.45| n.d.| 46.80| n.d.| 22.04| n.d.| 99.26|
| 717| 8.19| 13.16| 1.77| 0.32| 40.61| n.d.| 34.69| n.d.| 98.75|
| 718| 12.69| 23.59| 0.19| 0.20| 48.16| n.d.| 14.65| n.d.| 99.49|
| 719| 6.36| 24.02| 0.51| 0.39| 41.45| 0.55| 26.83| n.d.| 100.10|
| 720| 1.21| 11.22| 52.95| n.d.| 32.37| n.d.| 1.08| n.d.| 98.84|
| 721| 5.12| 16.09| n.d.| n.d.| 48.52| n.d.| 29.53| 0.38| 99.64|
| 722| 8.94| 22.51| n.d.| n.d.| 44.30| 0.45| 23.71| n.d.| 99.90|
| 723| 7.87| 13.44| n.d.| n.d.| 54.51| n.d.| 24.11| n.d.| 99.93|
| 724| 5.63| 11.01| n.d.| n.d.| 55.04| n.d.| 27.32| n.d.| 99.00|
| 725| 4.56| 11.48| n.d.| n.d.| 54.37| n.d.| 27.72| 0.37| 98.51|
| 726| 4.32| 12.18| n.d.| n.d.| 51.67| n.d.| 29.83| 0.46| 98.46|
| 727| 5.63| 15.59| n.d.| 0.21| 48.81| 0.47| 28.98| 0.46| 100.15|
| 728| 5.26| 7.92| n.d.| n.d.| 60.33| 0.49| 25.35| n.d.| 99.35|
| 729| 8.52| 16.35| 1.48| 0.31| 45.89| 0.56| 26.15| n.d.| 99.26|
| 730| 7.92| 14.67| 0.31| n.d.| 49.09| 0.50| 27.71| n.d.| 100.19|
| 731| 9.43| 19.59| 1.86| n.d.| 44.18| n.d.| 24.41| n.d.| 99.47|
| 732| 6.10| 7.23| 4.85| 0.63| 30.03| n.d.| 50.73| n.d.| 99.58|
| 733| 5.52| 12.01| n.d.| n.d.| 53.89| 0.68| 27.23| 0.58| 99.91|
| 734| 8.51| 24.00| n.d.| n.d.| 41.96| n.d.| 24.89| n.d.| 99.36|
| 735| 6.56| 16.42| n.d.| 0.26| 49.72| n.d.| 26.36| 0.49| 99.81|
| 736| 13.40| 24.19| 0.46| 0.25| 41.61| n.d.| 19.55| n.d.| 99.46|
| 737| 4.07| 7.52| n.d.| n.d.| 50.53| 0.63| 36.84| 0.55| 100.14|
| 738| 6.27| 13.24| n.d.| n.d.| 51.10| 0.58| 28.66| 0.36| 100.22|
| 739| 13.53| 24.38| 0.59| n.d.| 39.62| n.d.| 20.48| n.d.| 98.61|
| 740| 11.03| 20.83| n.d.| 0.29| 49.48| n.d.| 17.71| n.d.| 99.34|
| 741| 9.72| 22.77| 0.53| n.d.| 43.31| n.d.| 22.68| n.d.| 99.01|
| 742| 6.85| 14.25| 0.27| n.d.| 46.32| 0.60| 31.71| n.d.| 100.00|
| 743| 5.07| 16.87| 0.36| 0.20| 50.91| n.d.| 26.13| 0.71| 100.24|
| 744| 5.88| 14.87| 0.28| n.d.| 50.45| 0.51| 27.71| n.d.| 99.70|
| 745| 7.34| 16.75| n.d.| 0.35| 45.87| 0.48| 28.70| n.d.| 99.48|
| 746| 6.46| 13.05| n.d.| 0.27| 51.43| 0.64| 28.29| 0.54| 100.67|
| 747| 6.10| 13.06| 1.55| 0.31| 44.69| 0.72| 34.04| n.d.| 100.48|

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### 2.3 Asiago, Italy (Middle Jurassic)

All samples were collected from a ca 4 meter thick limestone succession belonging to the lower part of the Bathonian Global Stage.

#### 2.3.1 LB0 results

Lower Bathonian level 0 (Asiago), mount 467, weight 68 kg. Only searched for grains >63 µm.

**EC >63 µm**

|    | MgO   | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃  | MnO   | FeO   | ZnO   | Total  |
|----|-------|-------|-------|-------|--------|-------|-------|-------|--------|
| 1  | 3.73  | 6.14  | 2.06  | 0.81  | 60.27  | 0.82  | 25.54 | n.d.  | 99.37  |
| 2  | 5.11  | 6.94  | 2.18  | 0.81  | 59.14  | 1.21  | 21.09 | 2.81  | 99.29  |
| 3  | 2.97  | 6.38  | 2.38  | 0.83  | 59.51  | 1.03  | 26.47 | 0.54  | 100.11 |
| 4  | 3.36  | 6.98  | 2.32  | 0.69  | 59.70  | 1.25  | 25.07 | 0.67  | 100.04 |
| 5  | 3.08  | 6.59  | 2.48  | 0.74  | 61.59  | 0.91  | 24.42 | n.d.  | 99.81  |
|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total  |
|---|------|-------|-------|------|-------|------|------|------|--------|
| 1 | 8.82 | 17.42 | n.d.  | 0.59 | 53.15 | n.d. | 19.31| n.d. | 99.28  |
| 2 | 3.88 | 8.95  | 2.24  | 0.52 | 59.54 | 0.76 | 23.12| n.d. | 99.02  |
| 3 | 4.22 | 12.39 | 1.25  | 0.54 | 54.94 | 0.82 | 24.80| 0.92 | 99.89  |
| 4 | 3.81 | 12.70 | 1.23  | 0.57 | 55.96 | 0.54 | 23.28| 0.89 | 98.97  |
| 5 | 3.48 | 13.03 | 1.37  | 0.47 | 57.12 | n.d. | 23.82| 0.87 | 100.16 |
| 6 | 7.04 | 11.42 | 0.96  | 0.55 | 58.38 | 0.83 | 20.06| 1.44 | 100.67 |
| 7 | 6.13 | 12.21 | 2.32  | 0.67 | 54.96 | 0.76 | 23.06| n.d. | 100.11 |
| 8 | 5.82 | 14.24 | 1.82  | 0.70 | 55.84 | n.d. | 21.56| n.d. | 99.99  |
| 9 | 3.41 | 11.35 | 0.77  | 0.72 | 58.90 | n.d. | 25.75| 0.43 | 101.33 |
| 10| 3.63 | 12.29 | 1.18  | 0.57 | 54.39 | 0.79 | 25.88| 1.48 | 100.21 |
| 11| 10.92| 19.65 | 0.71  | 0.48 | 50.66 | n.d. | 16.95| n.d. | 99.36  |

**OtC-V >63 µm**

|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total  |
|---|------|-------|-------|------|-------|------|------|------|--------|
| 1 | 4.88 | 8.13  | n.d.  | 0.36 | 60.83 | 0.64 | 24.18| 0.97 | 99.99  |
| 2 | 5.43 | 9.03  | n.d.  | 0.18 | 56.70 | 0.44 | 26.78| n.d. | 98.56  |
| 3 | 9.86 | 9.68  | n.d.  | 0.18 | 60.84 | n.d. | 19.67| n.d. | 100.05 |
| 4 | 4.39 | 9.29  | n.d.  | 0.20 | 58.27 | n.d. | 26.79| n.d. | 98.94  |
| 5 | 11.32| 31.27 | n.d.  | 0.23 | 39.42 | n.d. | 16.79| n.d. | 99.03  |
| 6 | 13.51| 20.68 | n.d.  | n.d. | 51.61 | n.d. | 14.37| n.d. | 100.17 |
| 7 | 8.50 | 17.24 | n.d.  | n.d. | 51.99 | 0.30 | 21.84| 0.31 | 100.20 |
| 8 | 12.31| 22.06 | n.d.  | n.d. | 48.83 | n.d. | 15.66| n.d. | 98.86  |
|   | 9    | 12.93 | 24.41 | n.d. | n.d. | 45.06 | n.d. | 17.24 | n.d. | 99.64 |
|---|------|-------|-------|------|------|-------|------|-------|------|-------|
| 10| 13.33| 19.85 | n.d.  | n.d. | 52.83| n.d.  | 13.20| n.d.  | 99.20|
| 11| 12.87| 17.66 | n.d.  | n.d. | 56.99| n.d.  | 12.33| n.d.  | 99.86|
| 12| 13.44| 25.98 | n.d.  | n.d. | 46.22| n.d.  | 14.27| n.d.  | 99.91|
| 13| 2.28 | 28.16 | 3.00  | 3.12 | 24.05| 0.57  | 37.95| 0.93  | 100.06|
| 14| 9.18 | 15.76 | 0.32  | n.d. | 56.49| n.d.  | 18.52| 0.40  | 100.67|
| 15| 9.10 | 10.76 | 3.63  | 0.35 | 44.75| 0.40  | 30.48| n.d.  | 99.47|
| 16| 14.33| 25.27 | n.d.  | n.d. | 48.74| n.d.  | 11.49| n.d.  | 99.83|
| 17| 9.04 | 16.47 | n.d.  | n.d. | 52.85| n.d.  | 21.09| n.d.  | 99.45|
| 18| 8.93 | 12.62 | n.d.  | n.d. | 60.41| 0.56  | 15.77| 0.91  | 99.20|
| 19| 1.13 | 5.09  | n.d.  | n.d. | 56.47| 0.72  | 35.90| 0.82  | 100.14|
| 20| 9.41 | 20.29 | 2.91  | n.d. | 35.01| n.d.  | 31.42| n.d.  | 99.03|
| 21| 9.19 | 9.26  | n.d.  | n.d. | 61.72| 0.51  | 19.41| 0.64  | 100.73|
| 22| 9.35 | 18.79 | n.d.  | n.d. | 51.68| n.d.  | 19.89| n.d.  | 99.71|
| 23| 5.57 | 13.61 | n.d.  | n.d. | 51.25| 0.97  | 27.11| 1.09  | 99.61|
| 24| 14.95| 23.28 | 0.33  | n.d. | 48.97| n.d.  | 11.96| n.d.  | 99.49|
| 25| 14.22| 23.78 | 1.36  | n.d. | 40.95| n.d.  | 19.18| n.d.  | 99.49|
| 26| 13.92| 33.44 | n.d.  | n.d. | 37.18| n.d.  | 14.63| n.d.  | 99.18|
| 27| 12.50| 54.57 | 0.32  | n.d. | 13.06| n.d.  | 19.54| 0.59  | 100.58|
| 28| 3.16 | 39.05 | 1.51  | 1.12 | 17.89| n.d.  | 36.33| 1.24  | 100.30|
| 29| 9.93 | 8.49  | n.d.  | n.d. | 62.70| 0.40  | 17.25| n.d.  | 98.76|
| 30| 8.64 | 25.40 | 0.32  | 0.39 | 42.00| n.d.  | 22.25| n.d.  | 99.00|
| 31| 10.08| 8.19  | n.d.  | 0.32 | 64.58| n.d.  | 16.10| 0.32  | 99.60|
| 32| 14.82| 32.84 | n.d.  | n.d. | 36.37| n.d.  | 15.16| n.d.  | 99.20|
| 33| 8.09 | 20.85 | n.d.  | n.d. | 46.55| 0.54  | 22.15| 1.00  | 99.18|
| 34| 10.46| 19.65 | n.d.  | n.d. | 53.66| n.d.  | 15.05| 0.35  | 99.16|
| 35| 10.43| 12.18 | n.d.  | n.d. | 58.88| n.d.  | 17.03| 0.53  | 99.06|
| 36| 14.66| 30.12 | n.d.  | n.d. | 41.98| n.d.  | 13.42| n.d.  | 100.18|
| 37| 11.43| 29.68 | n.d.  | n.d. | 43.11| n.d.  | 16.05| n.d.  | 100.27|
| 38| 9.83 | 7.72  | n.d.  | n.d. | 64.39| n.d.  | 17.92| 0.76  | 100.63|
| 39| 6.67 | 12.74 | n.d.  | n.d. | 56.01| 0.61  | 24.38| 0.55  | 100.97|
| 40| 1.92 | 9.25  | 3.69  | n.d. | 43.85| 0.35  | 40.75| n.d.  | 99.81|
| 41| 10.43| 13.08 | n.d.  | n.d. | 58.85| n.d.  | 16.32| 1.37  | 100.05|
| 42| 11.92| 21.32 | n.d.  | n.d. | 50.26| n.d.  | 16.78| n.d.  | 100.28|
| 43| 10.59| 9.25  | n.d.  | n.d. | 62.24| 0.56  | 15.30| 1.23  | 99.17|
| 44| 10.92| 18.69 | n.d.  | 0.32 | 52.24| 0.66  | 17.21| n.d.  | 100.03|
| 45| 13.06| 23.22 | n.d.  | n.d. | 47.36| n.d.  | 15.79| n.d.  | 99.42|
| 46| 15.72| 22.50 | n.d.  | n.d. | 46.27| n.d.  | 15.29| n.d.  | 99.77|
| 47| 3.19 | 8.27  | n.d.  | 0.37 | 57.07| 0.83  | 29.31| 0.67  | 99.71|
| 48| 6.49 | 13.93 | n.d.  | 0.37 | 58.04| n.d.  | 21.10| n.d.  | 99.92|
| 49| 13.19| 26.90 | n.d.  | 0.27 | 43.48| n.d.  | 16.02| n.d.  | 99.85|
| 50| 5.55 | 10.60 | 0.51  | 0.41 | 55.33| n.d.  | 26.38| n.d.  | 98.78|
| 51| 6.23 | 15.29 | 0.51  | 0.43 | 52.68| n.d.  | 24.04| n.d.  | 99.18|
| 52| 2.17 | 5.22  | n.d.  | n.d. | 61.22| 2.27  | 28.42| 0.67  | 99.96|
2.3.2 LB1 results

Lower Bathonian level 1 m (Asiago), mount 468, weight 111 kg. Only searched for grains >63 µm.

EC >63 µm

|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 1.84 | 5.34  | 4.37 | 0.77 | 57.57 | 0.73 | 28.29| n.d. | 98.92 |

OtC-V >63 µm

|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 8.12 | 5.12  | 0.79 | 0.48 | 64.42 | 2.13 | 6.74 | 11.38| 99.93 |
| 2   | 3.14 | 9.44  | 0.44 | 0.89 | 61.87 | 0.84 | 22.08| 1.78 | 100.49|

OtC >63 µm

|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 12.42| 20.74 | n.d. | n.d. | 51.39 | 0.48 | 14.67| n.d. | 99.70 |
| 2   | 8.51 | 17.41 | n.d. | n.d. | 51.58 | 0.48 | 67.80| n.d. | 99.90 |
| 3   | 4.89 | 7.64  | n.d. | 0.34 | 59.54 | 0.79 | 13.88| 0.57 | 100.85|
| 4   | 11.71| 24.48 | n.d. | n.d. | 50.41 | 0.79 | 12.82| n.d. | 99.82 |
| 5   | 1.68 | 1.62  | 0.47 | n.d. | 50.41 | 0.93 | 38.65| 6.38 | 99.93 |
| 6   | 10.34| 19.00 | 0.46 | n.d. | 49.38 | 0.79 | 21.11| n.d. | 100.29|
| 7   | 8.69 | 21.49 | n.d. | n.d. | 51.62 | 0.56 | 17.26| n.d. | 99.62 |
| 8   | 8.92 | 15.48 | n.d. | n.d. | 58.66 | 0.79 | 16.69| n.d. | 99.75 |
| 9   | 11.79| 17.40 | n.d. | n.d. | 54.47 | 0.79 | 14.92| n.d. | 98.58 |
| 10  | 11.51| 19.06 | n.d. | n.d. | 50.97 | 0.79 | 17.73| n.d. | 99.27 |
| 11  | 13.49| 19.36 | n.d. | 0.43 | 54.07 | 0.79 | 12.36| n.d. | 99.71 |
| 12  | 15.06| 32.07 | 0.64 | n.d. | 35.32 | 0.79 | 15.63| n.d. | 98.72 |
| 13  | 15.67| 40.21 | 0.27 | n.d. | 22.56 | 0.79 | 20.26| n.d. | 98.97 |
| 14  | 11.14| 29.31 | n.d. | n.d. | 43.15 | 0.79 | 15.62| n.d. | 99.23 |
| 15  | 7.28 | 28.79 | n.d. | 0.27 | 42.28 | 0.79 | 21.11| 0.48 | 100.21|
| 16  | 10.88| 16.67 | n.d. | 0.31 | 55.23 | 0.79 | 16.56| n.d. | 99.65 |

2.3.3 LB2.7 results

Lower Bathonian level 2.7 m (Asiago), mount 471, weight 110 kg. Only searched for grains >63 µm.

EC >63 µm

|     | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|------|------|-------|------|------|------|-------|
| 1   | 2.92 | 5.38  | 2.43 | 0.73 | 63.45 | 1.20 | 22.78| n.d. | 98.90 |
| 2   | 3.20 | 8.31  | 2.56 | 0.68 | 63.86 | 0.75 | 19.59| 0.85 | 99.80 |
### OtC >63 µm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 9.19 | 11.45 | n.d. | 0.28 | 60.48 | n.d. | 18.35| n.d. | 99.75 |
| 2  | 13.22| 23.42 | n.d. | 0.25 | 49.45 | n.d. | 13.58| n.d. | 99.91 |
| 3  | 11.13| 22.64 | 0.34 | n.d. | 43.93 | 0.37 | 21.54| n.d. | 99.93 |
| 4  | 11.42| 21.75 | n.d. | 0.34 | 49.62 | n.d. | 17.06| n.d. | 100.18|
| 5  | 8.58 | 16.23 | 2.21 | 0.50 | 41.41 | n.d. | 30.97| n.d. | 99.91 |
| 6  | 8.96 | 17.87 | 1.20 | 0.36 | 43.85 | n.d. | 26.64| n.d. | 98.88 |
| 7  | 16.51| 40.00 | 1.16 | n.d. | 22.28 | n.d. | 19.69| n.d. | 99.62 |
| 8  | 11.37| 22.08 | n.d. | 0.26 | 49.15 | n.d. | 16.82| n.d. | 99.68 |
| 9  | 11.67| 25.47 | 0.33 | 0.24 | 42.22 | n.d. | 19.82| n.d. | 99.74 |
| 10 | 13.71| 25.66 | n.d. | n.d. | 45.85 | n.d. | 14.33| n.d. | 99.55 |
| 11 | 11.52| 18.82 | n.d. | 0.30 | 51.78 | n.d. | 17.18| n.d. | 99.60 |
| 12 | 13.09| 35.12 | 0.70 | n.d. | 25.63 | n.d. | 24.69| n.d. | 99.22 |
| 13 | 20.01| 52.95 | n.d. | n.d. | 15.51 | n.d. | 11.56| n.d. | 100.03|
| 14 | 19.56| 50.17 | 0.29 | n.d. | 17.45 | n.d. | 12.30| n.d. | 99.76 |
| 15 | 11.33| 17.75 | n.d. | n.d. | 56.36 | n.d. | 12.86| 1.57 | 99.86 |
| 16 | 10.22| 15.08 | n.d. | n.d. | 57.89 | 0.49 | 17.36| 0.55 | 101.59|
| 17 | 12.89| 24.79 | 0.24 | n.d. | 44.36 | 0.35 | 16.62| n.d. | 99.24 |
| 18 | 10.65| 22.87 | n.d. | 0.33 | 48.87 | n.d. | 16.95| 0.30 | 99.97 |
| 19 | 15.44| 29.55 | n.d. | n.d. | 38.15 | n.d. | 15.35| n.d. | 98.48 |
| 20 | 12.14| 20.27 | 0.28 | n.d. | 51.98 | n.d. | 15.47| n.d. | 100.14|
| 21 | 12.87| 21.83 | 0.44 | n.d. | 41.10 | n.d. | 23.96| n.d. | 100.20|
| 22 | 9.38 | 15.27 | n.d. | n.d. | 56.22 | 0.47 | 18.96| n.d. | 100.30|
| 23 | 16.85| 44.88 | 0.59 | n.d. | 17.59 | n.d. | 19.50| n.d. | 99.41 |
| 24 | 6.72 | 10.58 | n.d. | n.d. | 61.52 | n.d. | 20.65| n.d. | 99.47 |
| 25 | 12.60| 27.75 | n.d. | n.d. | 44.95 | n.d. | 13.97| n.d. | 99.26 |
| 26 | 15.97| 39.05 | 1.25 | n.d. | 21.93 | 0.25 | 20.57| n.d. | 99.03 |
| 27 | 11.17| 24.52 | n.d. | n.d. | 46.13 | n.d. | 17.34| n.d. | 99.16 |

### Lower Bathonian level 2.7 m (Asiago), mount 470 and 479, weight 106 kg.

### EC >63 µm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 3.92 | 7.06  | 1.81 | 0.79 | 63.41 | 0.98 | 21.94| 1.41 | 101.32|
| 2  | 3.24 | 6.07  | 1.79 | 0.75 | 62.40 | 1.17 | 21.86| 1.90 | 99.17 |
| 3  | 4.90 | 7.03  | 2.16 | 0.83 | 62.19 | 0.82 | 21.84| 0.73 | 100.49|
| 4  | 3.04 | 6.71  | 2.60 | 0.61 | 61.34 | 0.76 | 25.25| 0.48 | 100.80|
|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1 | 3.12| 10.40 | 1.61 | 0.49 | 59.00 | 0.63| 24.98| n.d. | 100.22 |
| 2 | 4.71| 4.03  | n.d. | 0.49 | 67.49 | n.d.| 11.71| 11.48| 99.91 |
| 3 | 3.88| 9.48  | 1.66 | 0.52 | 57.51 | 0.86| 26.55| n.d. | 100.46 |
| 4 | 5.40| 12.42 | 0.30 | 0.88 | 61.20 | 0.59| 12.60| 6.86 | 100.26 |

**OtC-V >63 μm**

**OtC >63 μm**

**EC 32-63 μm**

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1 | 1.88| 6.34  | 3.08 | 0.65 | 62.17 | n.d.| 20.15| 5.68 | 99.95 |
| 2 | 3.35| 6.47  | 1.71 | 0.79 | 60.89 | 0.94| 18.30| 8.13 | 100.58 |
| 3 | 2.71| 6.95  | 1.73 | 0.81 | 59.55 | 0.92| 20.31| 7.62 | 100.61 |
| 4 | 1.98| 5.56  | 4.14 | 0.73 | 61.31 | n.d.| 27.06| 0.48 | 101.26 |
| 5 | 2.53| 5.59  | 3.12 | 0.71 | 60.57 | 1.01| 24.91| 1.31 | 99.74 |
| 6 | 5.95| 5.97  | 3.18 | 0.73 | 59.68 | n.d.| 23.72| n.d. | 99.24 |
| 7 | 2.96| 6.38  | 2.37 | 0.78 | 61.73 | n.d.| 25.04| 0.71 | 99.98 |
| 8 | 3.46| 6.69  | 2.15 | 0.77 | 61.13 | n.d.| 25.16| n.d. | 99.36 |
| 9 | 2.49| 6.18  | 2.53 | 0.64 | 59.79 | 0.97| 23.45| 4.69 | 100.76 |
| 10| 3.90| 5.61  | 1.99 | 0.87 | 68.95 | 0.78| 17.80| 0.66 | 100.57 |
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 11| 1.88| 5.91| 3.47| 0.83| 62.84| n.d.|
| 12| 2.22| 6.74| 2.60| 0.84| 63.51| n.d.|
| 13| 1.94| 5.25| 3.53| 0.62| 62.00| n.d.|
| 14| 3.01| 5.84| 2.92| 0.73| 59.52| 0.81|
| 15| 1.21| 6.14| 4.51| 0.99| 61.29| n.d.|
| 16| 2.49| 6.80| 2.13| 0.74| 58.40| 0.86|
| 17| 2.88| 7.03| 1.58| 0.79| 68.59| n.d.|
| 18| 1.93| 6.34| 3.17| 0.79| 59.14| n.d.|
| 19| 1.58| 6.62| 3.13| 0.90| 63.15| n.d.|
| 20| 1.98| 6.72| 3.47| 0.70| 63.16| n.d.|
| 21| 3.91| 6.93| 2.36| 0.70| 59.46| 0.92|
| 22| 2.97| 6.84| 2.09| 0.71| 60.30| n.d.|
| 23| 3.99| 6.36| 2.14| 0.62| 59.75| 1.05|
| 24| 1.60| 5.94| 4.12| 0.75| 62.25| n.d.|
| 25| 3.22| 6.31| 2.50| 0.84| 62.77| 0.89|
| 26| 2.92| 5.93| 3.16| 0.86| 61.69| n.d.|
| 27| 3.14| 5.46| 3.00| 0.68| 59.68| n.d.|
| 28| 3.58| 6.96| 2.35| 0.65| 63.67| n.d.|
| 29| 3.77| 5.99| 2.02| 0.58| 60.70| 1.18|
| 30| 3.68| 7.21| 2.06| 0.80| 61.85| n.d.|
| 31| 2.58| 5.84| 3.13| 0.64| 60.25| 0.84|
| 32| 2.18| 5.26| 2.76| 0.88| 61.86| 0.68|
| 33| 4.72| 7.26| 1.72| 0.62| 62.98| 0.62|
| 34| 1.51| 6.07| 3.10| 0.83| 59.74| n.d.|
| 35| 2.65| 6.52| 2.39| 0.74| 60.84| n.d.|
| 36| 3.48| 6.13| 2.61| 0.75| 61.31| 0.79|
| 37| 2.90| 5.81| 2.52| 0.82| 59.70| n.d.|
| 38| 3.37| 5.60| 2.54| 0.88| 67.20| 0.95|
| 39| 5.37| 6.65| 2.38| 0.77| 61.07| n.d.|
| 40| 2.34| 5.74| 3.34| 0.77| 61.57| n.d.|
| 41| 3.39| 5.96| 1.90| 0.94| 59.43| 0.70|
| 42| 3.65| 6.75| 2.46| 0.66| 59.38| 1.19|
| 43| 2.35| 6.76| 1.13| 0.83| 60.85| 0.88|
| 44| 5.46| 6.14| 2.28| 0.69| 61.30| 1.03|
| 45| 2.43| 7.38| 2.07| 0.70| 61.00| n.d.|
| 46| 6.17*| 6.76| 1.97| 0.69| 62.50| n.d.|
| 47| 2.87| 6.88| 2.01| 0.87| 57.94| 1.29|
| 48| 2.71| 6.08| 2.63| 0.92| 59.87| n.d.|
| 49| 2.89| 5.78| 1.56| 0.65| 61.53| 0.96|
| 50| 2.39| 4.92| 1.64| 0.77| 60.49| n.d.|
| 51| 3.98| 5.41| 1.63| 0.73| 62.70| 1.31|
| 52| 3.50| 7.87| 1.18| 0.70| 60.94| n.d.|
| 53| 3.41| 6.82| 2.25| 0.68| 60.10| 1.20|
| 54| 2.16| 6.16| 2.99| 0.85| 60.31| n.d.|
| 55| 5.95| 7.01| 2.40| 0.87| 61.73| n.d.|

55
|   | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |
|---|----|----|----|----|----|----|----|----|----|----|----|
|   | 1.91 | 5.72 | 4.10 | 0.75 | 58.28 | n.d. | 30.56 | n.d. | 101.33 | 3.86 | 6.41 | 2.79 | 0.88 | 62.83 | n.d. | 16.98 | 5.71 | 99.46 | 2.67 | 7.37 | 2.23 | 0.91 | 63.97 | n.d. | 16.48 | 6.01 | 99.64 | 3.73 | 6.60 | 2.03 | 0.80 | 61.36 | n.d. | 23.57 | 2.36 | 100.45 | 4.68 | 7.53 | 2.51 | 0.79 | 62.45 | n.d. | 22.56 | n.d. | 100.52 | 3.02 | 6.91 | 2.06 | 0.76 | 61.13 | 0.83 | 21.90 | 3.01 | 99.64 | 1.85 | 6.35 | 2.67 | 0.86 | 64.45 | n.d. | 22.01 | 1.08 | 99.28 | 2.82 | 6.52 | 2.40 | 0.88 | 60.49 | 0.79 | 15.54 | 11.67 | 101.11 | 1.92 | 4.22 | 3.30 | 0.52 | 60.99 | n.d. | 27.07 | 1.66 | 99.68 | 2.89 | 5.49 | 1.92 | 0.55 | 64.85 | 0.86 | 13.55 | 9.01 | 99.11 |

*EC-outlier grain.

### OtC-V 32-63 µm

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1 | 1.66 | n.d. | 0.43 | 0.87 | 66.41 | n.d. | 11.82 | 19.53 | 100.74 |
| 2 | 4.55 | 13.61 | 0.47 | 0.60 | 58.58 | n.d. | 21.74 | n.d. | 99.55 |
| 3 | 4.87 | 10.44 | 0.54 | 0.72 | 60.13 | 0.64 | 21.98 | 1.14 | 100.45 |
| 4 | 1.73 | 10.19 | 2.37 | 0.77 | 57.88 | n.d. | 25.85 | n.d. | 98.79 |
| 5 | 2.64 | 10.65 | 1.79 | 0.68 | 62.97 | n.d. | 21.07 | 0.73 | 100.54 |
| 6 | 4.09 | 16.80 | 6.73 | 0.74 | 43.14 | n.d. | 27.71 | n.d. | 99.21 |
| 7 | 1.18 | 10.80 | 4.91 | 0.67 | 53.99 | n.d. | 28.34 | n.d. | 99.89 |
| 8 | 2.50 | 4.73 | 0.61 | 0.64 | 61.50 | n.d. | 29.34 | n.d. | 99.33 |
| 9 | 3.26 | 8.19 | 0.68 | 0.67 | 61.86 | n.d. | 15.65 | 11.08 | 101.39 |

### OtC 32-63

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1 | 0.57 | 4.42 | 0.69 | n.d. | 45.24 | 2.25 | 45.95 | 1.47 | 100.59 |
| 2 | 10.68 | 13.38 | n.d. | n.d. | 60.79 | n.d. | 9.22 | 7.38 | 101.45 |
| 3 | 12.41 | 30.49 | n.d. | n.d. | 43.09 | n.d. | 14.11 | n.d. | 100.11 |
| 4 | 5.23 | 15.10 | n.d. | n.d. | 47.25 | n.d. | 31.56 | n.d. | 99.14 |
| 5 | 7.87 | 13.65 | n.d. | n.d. | 60.35 | n.d. | 17.85 | n.d. | 99.72 |
| 6 | 16.22 | 52.95 | n.d. | n.d. | 16.88 | n.d. | 15.20 | n.d. | 101.25 |
| 7 | 7.40 | 17.66 | 1.47 | n.d. | 43.21 | n.d. | 30.85 | n.d. | 100.59 |
| 8 | 8.06 | 5.84 | n.d. | n.d. | 59.26 | n.d. | 26.00 | n.d. | 99.16 |
| 9 | 4.03 | 14.56 | 3.57 | 0.59 | 27.31 | n.d. | 48.23 | n.d. | 98.28 |
| 10 | 10.82 | 14.84 | n.d. | n.d. | 60.80 | n.d. | 13.67 | n.d. | 100.13 |
| 11 | 9.32 | 16.10 | n.d. | n.d. | 55.34 | n.d. | 19.07 | 0.64 | 100.46 |
| 12 | 7.21 | 11.80 | n.d. | n.d. | 64.51 | 1.91 | 14.98 | n.d. | 100.41 |
| 13 | 3.68 | 8.95 | 1.18 | n.d. | 59.39 | n.d. | 24.36 | 1.78 | 99.33 |
| 14 | 11.85 | 34.59 | n.d. | n.d. | 40.46 | n.d. | 13.38 | n.d. | 100.29 |
| 15 | 11.11 | 16.82 | 0.29 | n.d. | 54.14 | n.d. | 17.97 | 0.57 | 100.89 |
|   | 7.91 | 23.96 | n.d. | n.d. | 47.30 | 1.45 | 18.74 | 0.79 | 100.14 |
|---|------|-------|------|------|-------|------|-------|------|--------|
| 17| 12.84| 27.66 | 0.56 | n.d. | 40.01 | n.d. | 19.15 | n.d. | 100.22 |
| 18| 10.74| 12.21 | 0.39 | n.d. | 54.46 | n.d. | 22.02 | n.d. | 99.81  |
| 19| 12.27| 29.19 | n.d. | n.d. | 40.80 | n.d. | 17.31 | n.d. | 99.58  |
| 20| 10.24| 17.54 | 4.64 | 0.52 | 31.54 | n.d. | 36.18 | n.d. | 100.66 |
| 21| 3.06 | 0.82  | n.d. | n.d. | 45.46 | 0.81 | 50.17 | n.d. | 100.33 |
| 22| 7.81 | 21.43 | n.d. | 0.42 | 54.63 | n.d. | 15.16 | n.d. | 99.45  |
| 23| 9.59 | 30.13 | 0.65 | n.d. | 43.21 | n.d. | 16.51 | n.d. | 100.09 |
| 24| 10.79| 23.72 | n.d. | n.d. | 47.94 | n.d. | 17.08 | n.d. | 99.53  |
| 25| 13.40| 24.83 | n.d. | n.d. | 45.80 | n.d. | 15.95 | n.d. | 99.97  |
| 26| 8.03 | 21.92 | n.d. | n.d. | 48.62 | n.d. | 21.05 | n.d. | 99.62  |
| 27| 2.74 | 11.99 | 7.24 | 0.78 | 35.21 | n.d. | 42.52 | n.d. | 100.48 |
| 28| 9.66 | 18.35 | n.d. | n.d. | 55.35 | n.d. | 16.44 | 0.86 | 100.65 |
| 29| 8.05 | 13.92 | n.d. | n.d. | 57.84 | n.d. | 9.01  | 10.05 | 98.87  |
| 30| 5.30 | 15.90 | n.d. | n.d. | 46.10 | n.d. | 32.92 | n.d. | 100.22 |
| 31| 3.94 | 14.44 | 0.53 | n.d. | 50.16 | n.d. | 29.22 | 1.02 | 99.31  |
| 32| 10.74| 11.86 | n.d. | n.d. | 58.10 | n.d. | 18.76 | n.d. | 99.46  |
| 33| 9.55 | 17.63 | 0.72 | n.d. | 50.29 | n.d. | 21.02 | n.d. | 99.20  |
| 34| 10.44| 21.51 | 1.76 | n.d. | 35.86 | n.d. | 30.91 | n.d. | 100.48 |
| 35| 11.29| 19.33 | n.d. | n.d. | 49.34 | n.d. | 19.25 | n.d. | 99.21  |
| 36| 15.35| 24.32 | n.d. | n.d. | 45.44 | n.d. | 14.22 | n.d. | 99.32  |
| 37| 5.79 | 15.49 | n.d. | n.d. | 58.68 | n.d. | 18.78 | n.d. | 98.74  |
| 38| 3.24 | 17.78 | 1.88 | n.d. | 32.42 | 0.89 | 43.61 | n.d. | 99.83  |
| 39| 10.03| 35.35 | 0.88 | n.d. | 28.13 | n.d. | 24.42 | n.d. | 98.81  |
| 40| 12.82| 32.96 | 0.98 | n.d. | 32.94 | n.d. | 20.04 | n.d. | 99.75  |
| 41| 11.65| 17.27 | n.d. | n.d. | 56.30 | n.d. | 11.38 | 2.69 | 99.29  |
| 42| 12.15| 29.52 | 1.12 | n.d. | 36.16 | n.d. | 20.09 | n.d. | 99.05  |
| 43| 10.43| 21.86 | n.d. | n.d. | 51.16 | n.d. | 16.68 | n.d. | 100.13 |
| 44| 12.03| 19.17 | n.d. | n.d. | 52.80 | n.d. | 16.10 | n.d. | 100.10 |
| 45| 1.76 | 1.10  | 0.77 | 0.48 | 43.34 | n.d. | 52.50 | n.d. | 99.95  |
| 46| 9.63 | 18.44 | n.d. | n.d. | 54.44 | n.d. | 17.36 | n.d. | 99.87  |
| 47| 11.42| 20.44 | n.d. | n.d. | 51.82 | n.d. | 16.54 | n.d. | 100.21 |
| 48| 13.32| 37.90 | 0.72 | n.d. | 28.93 | n.d. | 19.02 | n.d. | 99.89  |
| 49| 10.23| 8.10  | n.d. | n.d. | 63.01 | n.d. | 17.85 | n.d. | 99.19  |
| 50| 9.22 | 12.83 | n.d. | n.d. | 56.11 | n.d. | 17.42 | 1.11 | 99.69  |
| 51| 4.26 | 17.81 | 1.93 | n.d. | 31.49 | 0.70 | 42.66 | 0.56 | 99.41  |
| 52| 12.35| 24.03 | n.d. | n.d. | 45.32 | n.d. | 17.67 | n.d. | 99.37  |
| 53| 7.37 | 20.51 | n.d. | n.d. | 54.86 | n.d. | 15.62 | 0.90 | 99.26  |
| 54| 9.83 | 18.70 | 0.67 | n.d. | 47.85 | n.d. | 22.74 | n.d. | 99.80  |
| 55| 1.39 | 16.81 | 1.69 | 0.44 | 30.94 | 1.50 | 43.46 | 3.12 | 99.35  |
| 56| 6.48 | 19.89 | 0.52 | n.d. | 46.79 | n.d. | 25.65 | n.d. | 99.32  |
| 57| 10.02| 30.95 | 0.36 | n.d. | 40.32 | n.d. | 17.52 | n.d. | 99.18  |
| 58| 6.60 | 8.94  | n.d. | n.d. | 58.51 | n.d. | 24.86 | n.d. | 98.91  |
| 59| 9.32 | 22.14 | n.d. | n.d. | 49.95 | n.d. | 17.39 | n.d. | 98.80  |
| 60| 7.97 | 7.09  | n.d. | n.d. | 64.64 | 3.44 | 10.57 | 6.71 | 100.43 |
## 2.3.4 LB 3.7 results

Lower Bathonian level 3.7 m (Asiago), mounts 472 and 473, weight 214 kg.

### EC >63 µm

|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|-------|-------|-------|-------|-------|------|------|------|-------|
| 1 | 1.70  | 5.93  | 3.74  | 0.80  | 62.43 | 0.68 | 25.46| 0.46 | 101.20|
| 2 | 2.37  | 6.36  | 1.93  | 0.70  | 63.69 | 1.04 | 19.51| 4.26 | 99.86 |
| 3 | 2.57  | 6.87  | 2.50  | 0.75  | 63.55 | 0.81 | 23.11| n.d. | 100.15|
| 4 | 3.34  | 6.93  | 1.98  | 0.81  | 62.95 | 1.15 | 19.93| 2.71 | 99.80 |
| 5 | 2.42  | 5.94  | 3.25  | 0.71  | 60.36 | 0.83 | 26.54| n.d. | 100.06|
| 6 | 2.47  | 5.60  | 2.38  | 0.78  | 62.78 | 0.85 | 18.82| 5.73 | 99.40 |
| 7 | 3.87  | 6.03  | 3.40  | 0.87  | 63.13 | 0.65 | 22.03| 0.75 | 100.73|
| 8 | 3.32  | 9.22  | 4.51  | 0.79  | 54.26 | n.d. | 27.84| n.d. | 99.94 |
| 9 | 5.19  | 6.20  | 3.40  | 0.76  | 62.13 | 0.79 | 18.11| 3.20 | 99.76 |
|10 | 2.56  | 4.90  | 1.57  | 0.79  | 65.60 | 0.78 | 14.54| 9.09 | 99.82 |

### OtC-V >63 µm

|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|-------|-------|-------|-------|-------|------|------|------|-------|
| 1 | 4.72  | 8.38  | 1.00  | 0.81  | 64.23 | n.d. | 18.38| 2.24 | 99.75 |
| 2 | 1.86  | 8.75  | 1.08  | 0.58  | 62.25 | 0.73 | 23.65| 0.95 | 99.86 |
| 3 | 3.35  | 13.99 | 0.85  | 0.81  | 58.49 | 0.54 | 22.79| n.d. | 100.82|

### OtC >63 µm

|   | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|-------|-------|-------|-------|-------|------|------|------|-------|
| 1 | 1.28  | 1.80  | 0.33  | 0.32  | 66.52 | 3.44 | 25.61| 1.92 | 101.23|
| 2 | 7.50  | 12.97 | 0.53  | n.d.  | 51.08 | n.d. | 27.86| n.d. | 99.93 |
| 3 | 10.68 | 19.56 | n.d.  | n.d.  | 53.94 | n.d. | 15.47| 0.72 | 100.38|
| 4 | 1.97  | 9.68  | 0.32  | n.d.  | 40.97 | 0.47 | 46.72| 0.48 | 100.62|
| 5 | 9.80  | 19.52 | n.d.  | n.d.  | 54.56 | 0.57 | 15.09| 0.54 | 100.09|
| 6 | 0.55  | 7.66  | n.d.  | 0.35  | 63.58 | 1.45 | 24.68| 2.33 | 100.61|
| 7 | 10.77 | 26.67 | n.d.  | n.d.  | 46.55 | n.d. | 15.05| n.d. | 99.04 |
| 8 | 9.62  | 10.90 | n.d.  | 0.34  | 64.71 | n.d. | 14.71| n.d. | 100.29|
| 9 | 11.98 | 27.75 | n.d.  | n.d.  | 45.73 | n.d. | 14.55| n.d. | 100.01|
|10 | 10.74 | 21.79 | n.d.  | n.d.  | 50.68 | n.d. | 15.71| n.d. | 98.92 |
|11 | 10.90 | 11.78 | 0.49  | n.d.  | 44.20 | 0.54 | 31.98| n.d. | 99.89 |
|    |     |     |    |     |     |     |     |     |     |     |
|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| 12 | 7.27| 13.47| 0.47| 0.23| 50.42| 0.38| 28.00| n.d.| 100.24|
| 13 | 6.46| 29.55| 0.71| n.d.| 30.78| 0.46| 32.16| n.d.| 100.13|
| 14 | 8.22| 11.31| n.d.| n.d.| 62.72| n.d.| 12.13| 4.78| 99.16|
| 15 | 7.62| 13.59| 0.52| n.d.| 51.11| 0.43| 27.66| n.d.| 100.92|
| 16 | 7.77| 17.52| n.d.| n.d.| 56.12| 0.45| 17.35| 1.03| 100.26|
| 17 | 8.44| 13.70| 0.52| n.d.| 50.11| 0.39| 26.84| n.d.| 100.00|
| 18 | 9.45| 22.57| n.d.| 0.35| 49.12| n.d.| 18.29| n.d.| 99.78|
| 19 | 7.01| 28.01| 0.34| 0.30| 39.66| 0.48| 24.61| n.d.| 100.42|
| 20 | 10.55| 23.89| n.d.| n.d.| 51.11| n.d.| 14.54| 0.35| 100.45|
| 21 | 10.33| 26.53| n.d.| n.d.| 47.44| n.d.| 14.56| 0.30| 99.16|
| 22 | 5.19| 14.72| n.d.| 0.33| 55.40| n.d.| 24.15| 0.61| 100.40|
| 23 | 9.91| 13.59| n.d.| n.d.| 60.11| n.d.| 12.04| 3.94| 99.60|
| 24 | 3.84| 16.55| n.d.| n.d.| 53.16| n.d.| 26.27| 0.54| 100.36|
| 25 | 5.03| 10.85| n.d.| n.d.| 59.10| 0.56| 24.62| 0.56| 100.72|
| 26 | 9.90| 17.52| n.d.| n.d.| 57.14| n.d.| 13.07| 2.98| 100.62|
| 27 | 6.87| 29.47| 0.62| n.d.| 30.19| 0.49| 31.03| 0.31| 98.99|
| 28 | 7.52| 13.81| 0.51| n.d.| 51.77| n.d.| 27.06| n.d.| 100.66|
| 29 | 8.65| 10.30| n.d.| 0.35| 62.20| n.d.| 9.01| 8.66| 99.17|
| 30 | 9.05| 15.51| 1.01| 0.40| 37.24| n.d.| 35.25| n.d.| 98.45|
| 31 | 7.62| 10.93| n.d.| n.d.| 60.72| n.d.| 9.61| 11.45| 100.32|
| 32 | 9.51| 19.77| n.d.| n.d.| 54.26| n.d.| 15.52| 0.44| 99.51|
| 33 | 5.74| 13.61| 2.99| 0.84| 31.40| n.d.| 44.82| n.d.| 99.41|
| 34 | 10.98| 19.23| n.d.| n.d.| 49.95| n.d.| 19.02| n.d.| 99.18|
| 35 | 3.61| 9.24| 0.46| 0.40| 61.68| n.d.| 24.18| 0.10| 99.67|
| 36 | 10.04| 20.92| n.d.| 0.38| 52.74| n.d.| 15.72| 0.81| 100.61|
| 37 | 7.83| 22.09| n.d.| 0.33| 52.98| n.d.| 16.57| n.d.| 99.80|
| 38 | 8.35| 20.19| 0.51| 0.39| 40.80| n.d.| 29.92| n.d.| 100.16|
| 39 | 7.40| 16.75| n.d.| n.d.| 55.48| n.d.| 19.24| 0.33| 99.21|
| 40 | 12.07| 22.27| n.d.| n.d.| 48.98| n.d.| 16.65| n.d.| 99.97|
| 41 | 8.72| 33.49| 1.02| 0.26| 34.12| n.d.| 22.09| 0.33| 100.02|
| 42 | 11.84| 20.51| n.d.| 0.25| 49.46| n.d.| 17.06| n.d.| 99.13|
| 43 | 9.19| 12.87| n.d.| 0.26| 61.16| n.d.| 13.80| 2.51| 99.80|
| 44 | 10.90| 15.64| n.d.| 0.29| 57.72| n.d.| 12.89| 2.04| 99.48|
| 45 | 8.53| 11.40| n.d.| n.d.| 63.09| n.d.| 16.19| 0.4| 99.62|
| 46 | 8.91| 27.95| 0.58| n.d.| 40.84| n.d.| 21.12| n.d.| 99.39|
| 47 | 1.68| 1.95| 0.71| n.d.| 61.89| 0.58| 33.22| 0.63| 100.67|
| 48 | 6.55| 10.89| n.d.| 0.38| 61.29| n.d.| 11.28| 10.48| 100.86|
| 49 | 2.75| 7.59| 0.19| 0.35| 61.81| 1.57| 25.86| 0.52| 100.64|
| 50 | 6.97| 15.39| n.d.| 0.28| 57.38| n.d.| 19.70| n.d.| 99.72|
| 51 | 10.39| 18.13| n.d.| n.d.| 56.54| n.d.| 13.11| 2.13| 100.30|
| 52 | 9.79| 17.64| n.d.| n.d.| 57.33| n.d.| 14.67| 0.66| 100.10|
| 53 | 9.38| 15.45| n.d.| n.d.| 59.94| n.d.| 9.64| 5.16| 99.58|
| 54 | 13.88| 31.43| n.d.| n.d.| 40.30| 0.43| 14.40| n.d.| 100.44|
| 55 | 10.52| 21.31| n.d.| 0.30| 53.47| n.d.| 14.55| 0.27| 100.43|
| 56 | 10.54| 24.25| n.d.| n.d.| 50.30| n.d.| 14.25| n.d.| 99.34|
2.3.5 LB1, LB2, LB 2.7 results

Lower Bathonian level 1.0 - 2.7 m (Asiago), mount 45, weight 40 kg.

**EC 32 - 355 µm**

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1  | 4.09| 6.65  | 2.37 | 0.72 | 58.56 | 0.90| 25.42| 0.44| 99.15 |
| 2  | 2.63| 6.20  | 3.10 | 0.76 | 57.00 | 1.02| 27.89| n.d.| 98.60 |
| 3  | 2.33| 6.15  | 2.92 | 0.75 | 57.71 | 0.75| 18.77| 8.99| 98.36 |
| 4  | 2.01| 8.29  | 1.15 | 0.91 | 58.58 | 0.78| 25.03| n.d.| 96.75 |
| 5  | 3.76| 6.33  | 2.84 | 0.85 | 57.65 | 0.87| 26.08| 0.53| 98.92 |
| 6  | 3.45| 7.55  | 2.05 | 0.61 | 57.90 | 0.78| 22.94| 4.46| 99.73 |
| 7  | 4.34| 8.36  | 2.17 | 0.75 | 58.68 | 1.08| 22.76| 0.61| 98.73 |
| 8  | 4.73| 6.55  | 1.39 | 0.72 | 60.22 | 1.01| 19.20| 4.76| 98.58 |
| 9  | 3.08| 6.92  | 2.25 | 0.81 | 59.31 | 1.19| 24.31| 1.38| 99.24 |
| 10 | 4.04| 5.20  | 1.95 | 0.73 | 60.62 | 1.42| 18.38| 6.93| 99.27 |
| 11 | 3.69| 6.92  | 1.44 | 0.70 | 58.39 | 1.21| 14.46| 12.69| 99.50 |
| 12 | 3.85| 6.13  | 1.90 | 0.60 | 58.11 | 1.09| 11.99| 15.31| 98.98 |
| 13 | 2.27| 7.06  | 1.51 | 0.86 | 59.05 | 0.72| 15.40| 11.95| 98.82 |
| 14 | 3.03| 6.51  | 2.07 | 0.69 | 57.39 | 1.02| 19.04| 8.83| 98.58 |
| 15 | 3.05| 6.33  | 3.69 | 0.77 | 57.57 | 0.63| 26.22| 0.44| 98.70 |
| 16 | 6.82* | 6.05 | 4.05 | 0.71 | 57.57 | 0.57| 23.28| n.d.| 99.05 |
| 17 | 3.11| 7.07  | 2.48 | 0.76 | 58.12 | 0.91| 24.60| 1.43| 98.46 |
| 18 | 2.58| 9.66  | 3.69 | 0.71 | 53.86 | 0.77| 27.09| n.d.| 98.36 |
| 19 | 2.66| 6.20  | 3.11 | 0.65 | 57.66 | 0.85| 26.78| 0.50| 98.40 |

*EC-outlier grain.

**OtC-V 32 - 355 µm**

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1  | 4.08| 0.37  | 2.34 | 0.92 | 63.85 | 0.82| 25.95| n.d.| 98.33 |
| 2  | 2.97| 0.44  | n.d. | 0.84 | 65.16 | 0.68| 10.32| 18.20| 98.62 |
| 3  | 6.01| 10.16 | 0.88 | 0.65 | 58.03 | 0.78| 22.03| 0.64| 99.20 |
| 4  | 5.70| 14.16 | 0.59 | 0.54 | 55.18 | 0.64| 22.72| n.d.| 99.54 |
2.4 Carcabuey, Spain (Middle Jurassic)

Samples were collected from a ca. 0.4 meter thick limestone succession including upper Bathonian to lower Oxfordian strata.

2.4.1 LOC results

Upper Bathonian to Lower Oxfordian (Carcabuey, Spain), mounts 44, 465 and 474, weight 214 kg.

EC >63 µm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 2.38 | 6.27  | 3.36 | 0.93 | 59.71 | 0.88 | 25.05| 0.22 | 98.80 |
| 2  | 3.97 | 6.68  | 2.42 | 0.86 | 59.40 | 1.01 | 23.02| 1.53 | 98.90 |
| 3  | 3.93 | 6.46  | 2.20 | 0.96 | 58.25 | 1.23 | 24.43| 0.89 | 98.35 |
| 4  | 4.94 | 6.42  | 3.02 | 0.87 | 58.91 | 0.83 | 23.91| 0.38 | 99.29 |
| 5  | 2.55 | 7.54  | 2.52 | 0.82 | 64.10 | 0.94 | 23.12| n.d. | 101.60|
| 6  | 5.10 | 6.62  | 1.97 | 0.88 | 62.01 | 0.79 | 20.20| 4.41 | 101.97|
| 7  | 3.84 | 7.34  | 2.23 | 1.01 | 61.21 | 0.80 | 24.21| 0.25 | 100.89|
| 8  | 3.01 | 6.32  | 3.69 | 0.93 | 58.57 | 0.86 | 28.76| n.d. | 102.14|
| 9  | 2.79 | 6.68  | 2.73 | 0.83 | 61.84 | 0.88 | 24.76| n.d. | 100.51|
| 10 | 4.18 | 7.37  | 2.36 | 0.84 | 60.66 | 0.94 | 24.89| 0.66 | 101.90|
| 11 | 3.93 | 5.96  | 2.83 | 0.75 | 59.81 | 0.69 | 26.74| 0.69 | 101.39|
| 12 | 1.64 | 6.39  | 4.28 | 0.98 | 61.62 | 0.64 | 22.93| 0.51 | 98.99 |
| 13 | 3.65 | 7.55  | 2.47 | 0.98 | 62.43 | 1.07 | 21.77| 1.05 | 100.96|
| 14 | 2.15 | 7.58  | 2.37 | 0.92 | 61.57 | 0.94 | 22.91| 0.29 | 98.72 |
|   |  15 |  16 |  17 |  18 |  19 |  20 |  21 |  22 |  23 |  24 |  25 |  26 |  27 |  28 |  29 |  30 |  31 |  32 |  33 |  34 |  35 |  36 |  37 |  38 |  39 |  40 |  41 |  42 |  43 |  44 |  45 |  46 |  47 |  48 |  49 |  50 |  51 |  52 |  53 |  54 |  55 |  56 |  57 |  58 |  59 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   | 3.94 | 7.22 | 2.35 | 1.03 | 61.69 | 1.28 | 23.47 | 0.87 | 101.85 | 2.12 | 6.24 | 3.20 | 0.86 | 60.58 | 0.74 | 25.98 | 0.45 | 100.16 | 1.90 | 6.64 | 2.82 | 1.05 | 60.64 | n.d. | 26.53 | 0.21 | 99.80 | 3.56 | 5.74 | 3.32 | 0.88 | 59.52 | 0.89 | 27.46 | 0.39 | 101.76 | 2.63 | 6.11 | 2.77 | 0.93 | 60.22 | 0.85 | 26.05 | 0.39 | 99.94 | 2.63 | 6.84 | 3.09 | 0.93 | 60.30 | 0.90 | 25.02 | 1.67 | 101.38 | 3.19 | 7.05 | 2.37 | 0.84 | 62.85 | 0.96 | 23.56 | 0.38 | 101.20 | 1.94 | 6.76 | 2.96 | 0.86 | 60.79 | 0.73 | 26.68 | 0.25 | 100.96 | 3.34 | 7.14 | 2.25 | 1.03 | 62.16 | 1.03 | 23.75 | 0.19 | 100.89 | 1.89 | 6.31 | 3.41 | 0.94 | 61.95 | 0.58 | 24.78 | 0.16 | 100.02 | 4.12 | 6.32 | 3.27 | 0.85 | 62.22 | n.d. | 23.26 | 0.43 | 100.48 | 3.63 | 7.31 | 2.22 | 0.98 | 62.14 | 1.21 | 20.16 | 3.02 | 100.68 | 3.13 | 6.72 | 2.32 | 1.02 | 63.71 | 1.02 | 21.39 | 0.68 | 99.99 | 4.83 | 6.85 | 1.81 | 0.92 | 61.26 | 0.80 | 23.03 | 0.41 | 99.90 | 2.48 | 5.55 | 3.19 | 0.97 | 60.84 | 0.95 | 27.24 | 0.54 | 101.77 | 3.52 | 7.59 | 1.95 | 0.92 | 62.59 | 0.98 | 20.91 | 1.22 | 99.68 | 1.87 | 6.06 | 3.41 | 0.84 | 61.72 | 0.66 | 25.53 | n.d. | 100.08 | 2.81 | 6.14 | 2.66 | 0.90 | 61.91 | 1.13 | 24.57 | 0.57 | 100.68 | 2.41 | 5.93 | 3.50 | 0.73 | 61.16 | 0.78 | 25.95 | n.d. | 100.46 | 3.83 | 7.20 | 2.38 | 0.84 | 60.76 | 1.02 | 25.80 | n.d. | 101.84 | 2.70 | 7.51 | 2.32 | 0.84 | 63.37 | 0.81 | 22.65 | 0.46 | 100.66 | 3.80 | 6.99 | 2.10 | 0.96 | 64.19 | 0.72 | 20.55 | 2.05 | 101.36 | 1.45 | 6.11 | 3.43 | 0.86 | 62.66 | 0.73 | 25.13 | 0.17 | 100.53 | 2.05 | 8.82 | 3.13 | 0.98 | 58.11 | 0.57 | 25.71 | n.d. | 99.39 | 1.18 | 6.65 | 3.46 | 1.01 | 62.79 | n.d. | 25.63 | 0.14 | 100.87 | 3.00 | 6.61 | 1.72 | 0.91 | 62.04 | 1.02 | 25.65 | 0.30 | 101.26 | 2.52 | 7.44 | 1.78 | 0.94 | 63.34 | 0.85 | 22.47 | 0.54 | 99.88 | 3.37 | 7.61 | 1.76 | 0.97 | 62.60 | 0.83 | 17.73 | 5.26 | 100.11 | 2.82 | 6.90 | 4.41 | 1.00 | 62.81 | n.d. | 22.88 | 0.28 | 101.09 | 1.93 | 6.14 | 3.29 | 1.00 | 62.91 | 0.70 | 24.83 | n.d. | 100.80 | 3.19 | 5.99 | 2.90 | 0.79 | 58.93 | 1.08 | 28.01 | 0.12 | 101.01 | 2.04 | 6.35 | 3.09 | 1.19 | 62.25 | n.d. | 24.44 | 0.51 | 99.87 | 2.66 | 7.09 | 2.45 | 0.98 | 62.85 | 0.75 | 22.74 | 0.54 | 100.05 | 5.99 | 6.24 | 2.67 | 1.02 | 60.29 | 0.73 | 24.57 | n.d. | 101.51 | 3.07 | 7.19 | 1.84 | 0.84 | 62.26 | 1.12 | 21.35 | 2.99 | 100.68 | 3.56 | 6.56 | 2.02 | 1.02 | 63.26 | 1.00 | 21.42 | 1.51 | 100.36 | 1.38 | 6.23 | 3.68 | 1.06 | 61.17 | 0.87 | 25.70 | n.d. | 100.08 | 2.17 | 7.39 | 2.52 | 0.96 | 64.24 | 0.88 | 22.14 | 0.21 | 100.52 | 2.49 | 6.12 | 3.41 | 0.93 | 61.89 | n.d. | 25.88 | n.d. | 100.71 | 4.88 | 6.16 | 2.51 | 0.77 | 60.62 | 0.84 | 24.25 | n.d. | 100.04 | 1.99 | 6.03 | 3.16 | 0.87 | 60.70 | 0.67 | 24.85 | 2.05 | 100.32 | 4.98 | 6.52 | 2.17 | 0.79 | 62.69 | 0.68 | 21.84 | n.d. | 99.67 | 4.23 | 6.13 | 2.27 | 0.78 | 59.73 | 1.31 | 20.79 | 4.18 | 99.42 | 4.02 | 7.02 | 2.46 | 0.76 | 65.28 | 0.55 | 20.08 | n.d. | 100.16 | 1.53 | 6.34 | 4.33 | 0.76 | 65.90 | 0.59 | 19.48 | n.d. | 98.94 |
|   | 5.48 | 6.96 | 2.74 | 0.94 | 67.22 | n.d. | 15.43 | n.d. | 98.77 |
|---|------|------|------|------|-------|------|-------|------|-------|
| 60 | 2.06 | 7.71 | 2.24 | 1.06 | 64.25 | 0.81 | 19.78 | 1.06 | 98.98 |
| 61 | 2.08 | 6.91 | 2.05 | 0.77 | 63.14 | 1.13 | 24.15 | n.d. | 100.23 |
| 62 | 2.13 | 5.19 | 1.98 | 0.72 | 63.58 | 1.28 | 24.85 | 0.61 | 100.35 |
| 63 | 3.32 | 6.94 | 2.15 | 0.87 | 61.78 | 0.92 | 21.93 | 2.45 | 100.36 |
| 64 | 2.82 | 6.94 | 2.17 | 0.85 | 64.35 | 0.98 | 19.81 | 2.37 | 100.30 |
| 65 | 2.34 | 7.06 | 2.40 | 0.72 | 63.87 | 0.82 | 21.50 | 1.30 | 100.02 |
| 66 | 2.39 | 6.62 | 2.38 | 0.74 | 61.77 | 0.86 | 23.68 | 1.49 | 99.94 |
| 67 | 3.69 | 5.58 | 2.48 | 0.66 | 60.20 | 0.82 | 25.50 | 1.19 | 100.12 |
| 68 | 2.70 | 7.03 | 1.87 | 0.82 | 63.75 | 0.85 | 23.26 | 0.52 | 100.79 |
| 69 | 2.11 | 5.73 | 1.78 | 0.75 | 60.37 | 0.83 | 24.49 | 5.19 | 101.25 |
| 70 | 2.29 | 6.72 | 2.47 | 0.80 | 63.44 | 0.81 | 24.54 | n.d. | 101.08 |
| 71 | 3.21 | 5.33 | 1.95 | 0.84 | 64.39 | 1.14 | 18.23 | 4.96 | 100.05 |
| 72 | 3.59 | 6.58 | 2.08 | 0.76 | 61.06 | 1.12 | 24.83 | 1.08 | 101.09 |
| 73 | 3.99 | 6.64 | 2.20 | 0.73 | 60.05 | 1.12 | 23.88 | 1.94 | 100.56 |
| 74 | 3.31 | 6.36 | 2.43 | 0.70 | 58.84 | 1.19 | 25.17 | 1.18 | 99.17 |
| 75 | 3.28 | 6.67 | 2.22 | 0.84 | 63.68 | 1.11 | 19.44 | 2.90 | 100.16 |
| 76 | 6.35* | 6.20 | 2.27 | 0.81 | 61.29 | 0.93 | 21.77 | 0.45 | 100.07 |
| 77 | 3.67 | 6.75 | 1.82 | 0.87 | 63.36 | 1.27 | 20.88 | 1.21 | 99.83 |
| 78 | 3.62 | 6.49 | 1.53 | 0.77 | 63.80 | 0.90 | 23.13 | 0.90 | 101.16 |
| 79 | 3.85 | 6.78 | 2.25 | 0.83 | 64.93 | 0.67 | 20.84 | 0.49 | 100.63 |
| 80 | 3.42 | 6.50 | 2.19 | 0.83 | 64.13 | 1.01 | 22.72 | 1.18 | 99.27 |
| 81 | 4.03 | 6.74 | 2.02 | 0.84 | 60.27 | 0.85 | 23.62 | 1.21 | 99.58 |
| 82 | 2.29 | 6.51 | 1.78 | 0.71 | 58.54 | 0.82 | 16.57 | 12.12 | 99.34 |
| 83 | 2.54 | 7.33 | 2.01 | 0.66 | 60.15 | 0.81 | 26.97 | n.d. | 100.46 |
| 84 | 1.93 | 6.01 | 2.47 | 0.76 | 62.08 | 0.89 | 25.82 | 0.51 | 100.47 |
| 85 | 2.37 | 7.80 | 1.87 | 0.86 | 65.03 | 0.90 | 19.24 | 0.84 | 98.91 |
| 86 | 4.44 | 6.40 | 2.45 | 0.80 | 59.78 | 1.01 | 24.77 | 0.73 | 100.36 |
| 87 | 3.29 | 7.04 | 1.91 | 0.80 | 61.34 | 1.04 | 23.51 | 0.30 | 99.23 |
| 88 | 2.57 | 6.91 | 2.44 | 0.84 | 62.96 | 0.70 | 23.42 | n.d. | 99.85 |
| 89 | 2.63 | 6.42 | 2.38 | 0.85 | 60.97 | 0.95 | 25.40 | 0.64 | 100.23 |
| 90 | 4.57 | 6.39 | 2.03 | 0.78 | 63.58 | 0.86 | 19.32 | 1.82 | 99.34 |
| 91 | 2.24 | 6.47 | 2.48 | 0.95 | 62.18 | 0.68 | 25.24 | n.d. | 100.23 |
| 92 | 4.34 | 6.54 | 1.88 | 0.91 | 61.95 | 0.90 | 23.41 | n.d. | 99.93 |
| 93 | 3.37 | 5.92 | 2.00 | 0.85 | 62.53 | 0.90 | 23.14 | 2.11 | 100.83 |
| 94 | 2.63 | 7.20 | 2.42 | 0.85 | 61.37 | 0.65 | 24.26 | n.d. | 99.37 |
| 95 | 3.15 | 7.21 | 1.81 | 0.84 | 62.18 | 0.94 | 20.31 | 3.27 | 99.72 |
| 96 | 4.09 | 7.02 | 1.92 | 0.79 | 62.63 | 1.05 | 20.05 | 1.48 | 99.03 |
| 97 | 6.05* | 4.87 | 1.56 | 0.89 | 62.22 | 1.02 | 18.73 | 4.80 | 100.14 |
| 98 | 3.41 | 7.20 | 2.18 | 0.79 | 61.69 | 1.00 | 20.02 | 4.81 | 101.10 |
| 99 | 4.48 | 4.67 | 2.20 | 0.95 | 62.06 | n.d. | 19.18 | 5.84 | 99.38 |
| 100 | 3.59 | 6.81 | 1.98 | 0.84 | 60.50 | 1.11 | 24.40 | 1.51 | 100.75 |
| 101 | 2.40 | 5.87 | 3.25 | 0.75 | 61.43 | 0.98 | 25.33 | 0.70 | 100.70 |
| 102 | 3.82 | 5.40 | 2.62 | 0.66 | 62.03 | 0.86 | 24.35 | 0.44 | 100.18 |
| 103 | 1.71 | 5.76 | 3.32 | 0.81 | 62.33 | 0.56 | 25.69 | n.d. | 100.17 |
### OtC-V >63 µm

|     | MgO | Al₂O₃ | TiO₂ | V₂O₅ | Cr₂O₅ | MnO | FeO | ZnO | Total   |
|-----|-----|-------|------|------|-------|-----|-----|-----|---------|
| 1   | 12.56 | 10.93 | 0.98 | 0.76 | 62.53 | 0.78 | 8.03 | 6.09 | 102.65 |

*EC-outlier grain.
|   | 2.80 | 4.82 | 8.73 | 1.70 | 39.06 | 0.77 | 38.99 | 0.69 | 97.56 |
|---|------|------|------|------|-------|------|-------|------|------|
| 1 | 10.03| 17.31| 0.36 | 0.18 | 48.98 | n.d. | 21.63 | n.d. | 98.48 |
| 2 | 7.25 | 20.92| 0.39 | n.d. | 45.28 | n.d. | 25.27 | n.d. | 99.11 |
| 3 | 6.00 | 21.44| 0.48 | 0.35 | 46.36 | n.d. | 24.52 | n.d. | 99.15 |
| 4 | 7.45 | 19.78| 1.90 | n.d. | 32.56 | 0.57 | 36.99 | n.d. | 99.26 |
| 5 | 6.67 | 8.04 | 0.69 | 0.69 | 61.20 | n.d. | 18.27 | 3.68 | 99.24 |
| 6 | 2.60 | 7.35 | 0.37 | 0.84 | 62.05 | 0.68 | 26.73 | n.d. | 100.63|
| 7 | 7.26 | 11.83| 0.55 | 0.99 | 59.17 | 0.52 | 16.99 | 3.12 | 100.44|
| 8 | 5.12 | 8.72 | 0.92 | 0.70 | 61.76 | n.d. | 21.27 | 1.85 | 100.34|
| 9 | 3.84 | 10.72| 6.35 | 0.65 | 52.25 | 0.61 | 24.95 | n.d. | 99.38 |
| 10| 2.11 | 8.64 | 0.93 | 0.76 | 65.40 | 0.63 | 19.10 | 2.51 | 100.09|
| 11| 3.72 | 6.81 | 0.39 | 1.04 | 66.42 | n.d. | 14.58 | 7.64 | 100.60|
| 12| 6.60 | 6.80 | n.d. | 0.59 | 64.59 | 1.15 | 18.74 | 1.52 | 100.00|
| 13| 0.58 | 8.79 | 2.86 | 1.25 | 57.49 | n.d. | 28.63 | n.d. | 99.60 |
| 14| 6.07 | 9.59 | 2.26 | 0.75 | 58.26 | n.d. | 23.24 | 0.21 | 100.37|

**OtC >63 µm**
|   | 6.78 | 14.33 | n.d. | 0.32 | 61.72 | 1.60 | 13.64 | 0.73 | 99.11 |
|---|------|-------|------|------|-------|------|-------|------|-------|
| 7 | 9.13 | 24.99 | 0.33 | n.d. | 49.60 | n.d. | 15.18 | n.d. | 99.23 |
| 8 | 6.04 | 18.65 | 0.43 | n.d. | 43.88 | 0.49 | 29.71 | n.d. | 99.19 |
| 9 | 9.53 | 22.79 | n.d. | n.d. | 50.42 | n.d. | 16.32 | 0.35 | 99.41 |
| 10 | 14.45 | 24.16 | 2.69 | n.d. | 33.26 | 0.59 | 25.61 | n.d. | 100.77 |
| 11 | 1.24 | 1.26 | 0.69 | n.d. | 48.78 | 3.19 | 44.22 | 1.72 | 101.09 |
| 12 | 10.10 | 14.50 | n.d. | 0.25 | 59.06 | 0.93 | 14.65 | 0.60 | 100.09 |
| 13 | 5.20 | 6.46 | n.d. | n.d. | 64.76 | 0.64 | 22.10 | 0.44 | 99.59 |
| 14 | 8.89 | 29.73 | 0.25 | 0.27 | 34.21 | 0.50 | 26.07 | n.d. | 99.93 |
| 15 | 2.01 | 13.68 | 0.48 | 0.48 | 45.10 | n.d. | 37.46 | 0.68 | 99.88 |
| 16 | 10.55 | 9.29 | 0.59 | n.d. | 55.89 | 0.35 | 22.16 | n.d. | 98.82 |
| 17 | 11.61 | 14.94 | 0.40 | n.d. | 51.76 | n.d. | 20.18 | n.d. | 98.88 |
| 18 | 13.88 | 27.90 | n.d. | n.d. | 46.11 | n.d. | 10.67 | n.d. | 98.57 |
| 19 | 11.77 | 14.69 | n.d. | n.d. | 57.86 | 0.46 | 13.02 | 2.01 | 99.81 |
| 20 | 5.44 | 6.00 | n.d. | n.d. | 51.35 | 0.58 | 35.37 | n.d. | 98.75 |
| 21 | n.d. | 3.08 | 0.47 | 0.37 | 42.93 | 0.69 | 49.32 | 2.76 | 99.61 |
| 22 | 13.87 | 7.56 | 0.28 | n.d. | 59.28 | n.d. | 17.63 | n.d. | 98.62 |
| 23 | 10.13 | 15.27 | 0.38 | 0.28 | 53.04 | n.d. | 20.45 | n.d. | 99.56 |
| 24 | 12.46 | 24.47 | n.d. | n.d. | 45.92 | n.d. | 16.67 | n.d. | 99.52 |
| 25 | 10.68 | 27.50 | 0.61 | n.d. | 41.38 | 0.53 | 19.69 | n.d. | 100.39 |
| 26 | 5.06 | 14.55 | 0.26 | n.d. | 56.11 | 0.54 | 23.49 | n.d. | 100.01 |
| 27 | 11.69 | 26.87 | 2.64 | 0.35 | 26.12 | n.d. | 31.42 | n.d. | 99.09 |
| 28 | 14.06 | 31.28 | n.d. | 0.16 | 40.25 | n.d. | 14.27 | n.d. | 100.02 |
| 29 | 7.29 | 14.22 | n.d. | 0.30 | 58.22 | 0.60 | 18.58 | 0.33 | 99.54 |
| 30 | 8.01 | 24.05 | 0.91 | 0.26 | 39.77 | n.d. | 26.05 | n.d. | 99.05 |
| 31 | 9.26 | 26.39 | 0.76 | n.d. | 34.19 | 0.63 | 28.01 | n.d. | 99.25 |
| 32 | 14.17 | 29.73 | n.d. | 0.22 | 39.07 | n.d. | 16.44 | n.d. | 99.63 |
| 33 | 8.99 | 11.41 | n.d. | 0.25 | 62.53 | 0.80 | 15.60 | 0.44 | 100.02 |
| 34 | 8.95 | 13.95 | n.d. | n.d. | 54.50 | n.d. | 22.25 | n.d. | 99.66 |
| 35 | 5.51 | 26.11 | 0.68 | n.d. | 27.43 | 0.58 | 39.13 | 0.47 | 99.90 |
| 36 | 13.43 | 29.44 | n.d. | n.d. | 43.18 | n.d. | 13.42 | n.d. | 99.47 |
| 37 | 8.13 | 11.73 | n.d. | n.d. | 61.54 | 6.78 | 8.82 | 3.09 | 100.08 |
| 38 | 3.78 | 6.46 | n.d. | n.d. | 60.32 | n.d. | 28.27 | n.d. | 98.83 |
| 39 | 7.38 | 21.88 | n.d. | 0.29 | 52.14 | n.d. | 18.06 | 0.86 | 100.61 |
| 40 | 8.86 | 44.69 | n.d. | 0.24 | 17.04 | n.d. | 28.41 | 0.48 | 99.72 |
| 41 | 7.58 | 10.78 | n.d. | 0.26 | 58.46 | 0.34 | 21.61 | 0.73 | 99.76 |
| 42 | 9.67 | 17.86 | 2.05 | n.d. | 46.74 | n.d. | 22.95 | n.d. | 99.27 |
| 43 | 0.38 | 12.23 | 0.57 | 0.23 | 45.88 | 1.38 | 36.78 | 2.33 | 99.78 |
| 44 | 5.61 | 11.57 | 2.42 | n.d. | 50.12 | n.d. | 29.47 | n.d. | 99.19 |
| 45 | 4.23 | 8.23 | n.d. | 0.27 | 52.62 | 0.62 | 32.75 | 0.35 | 99.07 |
| 46 | 15.95 | 34.57 | n.d. | n.d. | 33.18 | n.d. | 15.17 | n.d. | 98.88 |
| 47 | 11.18 | 10.26 | n.d. | n.d. | 58.01 | n.d. | 19.81 | n.d. | 99.27 |
| 48 | 8.16 | 23.74 | 1.05 | 0.29 | 40.13 | n.d. | 25.97 | n.d. | 99.35 |
| 49 | 9.39 | 18.85 | 0.61 | 0.36 | 44.29 | n.d. | 26.27 | n.d. | 99.78 |
| 50 | 9.87 | 11.53 | n.d. | 0.31 | 61.18 | 1.27 | 12.77 | 4.28 | 101.23 |
|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 51 | 5.41 | 19.87 | n.d. | n.d. | 51.74 | n.d. | 21.99 | 0.38 | 99.39 |
| 52 | 16.79 | 56.69 | n.d. | n.d. | 13.36 | n.d. | 12.26 | n.d. | 99.10 |
| 53 | 10.96 | 11.10 | 0.23 | n.d. | 58.94 | n.d. | 18.11 | n.d. | 99.34 |
| 54 | 1.46 | 31.67 | 0.58 | n.d. | 29.87 | 0.99 | 34.62 | 1.47 | 100.67 |
| 55 | 9.02 | 28.63 | 0.33 | n.d. | 35.33 | n.d. | 25.57 | n.d. | 98.88 |
| 56 | 0.31 | 9.74 | 0.63 | n.d. | 41.21 | 1.55 | 43.71 | 2.21 | 99.37 |
| 57 | 10.63 | 31.14 | 0.34 | n.d. | 35.09 | n.d. | 21.31 | n.d. | 98.51 |
| 58 | 3.06 | 13.44 | 0.30 | n.d. | 42.72 | 0.56 | 38.41 | n.d. | 98.49 |
| 59 | 14.90 | 36.99 | 0.87 | n.d. | 27.58 | n.d. | 18.42 | n.d. | 98.76 |
| 60 | 3.09 | 11.17 | n.d. | 0.39 | 52.27 | 0.67 | 32.02 | 0.47 | 100.09 |
| 61 | 5.78 | 19.00 | 1.71 | 0.43 | 39.59 | n.d. | 33.21 | n.d. | 99.72 |
| 62 | 3.93 | 15.38 | n.d. | 0.35 | 55.43 | n.d. | 22.13 | 1.65 | 98.86 |
| 63 | 10.78 | 24.60 | 0.90 | 0.26 | 34.32 | 0.38 | 27.99 | n.d. | 99.23 |
| 64 | 12.48 | 21.02 | n.d. | n.d. | 51.66 | n.d. | 14.89 | n.d. | 100.06 |
| 65 | 12.07 | 22.02 | n.d. | 0.29 | 51.30 | 0.56 | 13.34 | n.d. | 99.57 |
| 66 | 7.07 | 16.71 | n.d. | 0.29 | 59.99 | 0.78 | 13.68 | 0.77 | 99.29 |
| 67 | 8.07 | 14.17 | 1.54 | n.d. | 43.74 | n.d. | 0.47 | 31.64 | 99.64 |
| 68 | 6.53 | 15.38 | n.d. | n.d. | 45.24 | n.d. | 32.04 | n.d. | 99.19 |
| 69 | 5.27 | 13.67 | 2.94 | n.d. | 41.22 | 0.48 | 36.67 | n.d. | 100.25 |
| 70 | 9.75 | 19.73 | n.d. | n.d. | 53.31 | 0.54 | 17.54 | 0.32 | 101.19 |
| 71 | 13.47 | 33.84 | n.d. | n.d. | 32.96 | n.d. | 18.49 | n.d. | 98.77 |
| 72 | 8.77 | 8.82 | n.d. | n.d. | 59.11 | n.d. | 22.74 | n.d. | 99.44 |
| 73 | 2.57 | 4.33 | 0.48 | n.d. | 61.98 | n.d. | 29.68 | n.d. | 99.04 |
| 74 | 9.96 | 36.76 | 0.41 | n.d. | 28.21 | n.d. | 23.91 | n.d. | 99.25 |
| 75 | 2.70 | 5.38 | 0.23 | 0.24 | 45.75 | 2.92 | 41.75 | 1.45 | 100.43 |
| 76 | 3.12 | 8.57 | 3.54 | 0.41 | 43.90 | 0.56 | 39.60 | n.d. | 99.70 |
| 77 | 5.05 | 13.35 | 0.39 | n.d. | 60.96 | 1.03 | 18.99 | 1.25 | 101.01 |
| 78 | 6.10 | 17.95 | 0.24 | n.d. | 55.44 | n.d. | 19.07 | 0.32 | 99.11 |
| 79 | 9.72 | 31.34 | 0.41 | n.d. | 35.95 | n.d. | 21.82 | n.d. | 99.24 |
| 80 | 3.03 | 19.22 | 0.13 | n.d. | 43.02 | 2.06 | 30.79 | 1.37 | 99.62 |
| 81 | 7.46 | 7.60 | n.d. | n.d. | 59.03 | 6.53 | 14.70 | 4.90 | 100.22 |
| 82 | 3.61 | 6.62 | n.d. | 0.32 | 39.94 | 0.56 | 47.92 | 0.63 | 99.60 |
| 83 | 10.40 | 32.29 | n.d. | n.d. | 35.74 | n.d. | 20.87 | n.d. | 99.30 |
| 84 | 11.32 | 19.33 | 0.37 | n.d. | 48.21 | n.d. | 21.01 | n.d. | 100.25 |
| 85 | 7.37 | 16.05 | 0.32 | n.d. | 51.74 | 0.46 | 24.62 | n.d. | 100.57 |
| 86 | 9.99 | 11.94 | n.d. | n.d. | 58.46 | n.d. | 20.27 | n.d. | 100.66 |
| 87 | 7.56 | 22.92 | 2.87 | n.d. | 44.21 | n.d. | 23.02 | n.d. | 100.58 |
| 88 | 12.52 | 30.65 | n.d. | n.d. | 41.72 | n.d. | 14.79 | n.d. | 99.68 |
| 89 | 3.85 | 10.78 | 2.95 | 0.40 | 41.12 | 1.00 | 39.73 | 0.39 | 100.21 |
| 90 | 6.94 | 16.37 | 4.39 | 0.31 | 41.05 | n.d. | 29.79 | n.d. | 98.86 |
| 91 | 11.93 | 11.19 | 0.27 | n.d. | 57.75 | 0.51 | 19.40 | n.d. | 101.05 |
| 92 | 5.03 | 13.43 | n.d. | 0.34 | 48.92 | n.d. | 32.32 | n.d. | 100.03 |
| 93 | 7.98 | 29.53 | n.d. | n.d. | 44.87 | n.d. | 16.04 | 0.52 | 98.94 |
| 94 | 10.80 | 41.63 | n.d. | 0.27 | 23.50 | n.d. | 23.59 | 0.36 | 100.15 |
| 95 | 13.90 | 41.54 | 0.48 | n.d. | 26.11 | n.d. | 16.63 | n.d. | 98.67 |
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 96| 11.05 | 24.01 | 2.02 | n.d. | 38.00 | 24.56 | 99.64 |
| 97| 11.82 | 38.45 | n.d. | n.d. | 28.47 | 21.86 | n.d. | 100.61 |
| 98| 2.10 | 12.59 | 1.60 | 0.50 | 38.73 | 0.53 | 43.00 | 0.68 | 99.72 |
| 99| 11.60 | 17.15 | n.d. | n.d. | 54.44 | 15.92 | 0.33 | 99.45 |
|100| 12.56 | 27.49 | n.d. | n.d. | 47.92 | 12.42 | n.d. | 100.39 |
|101| 8.32 | 29.53 | 0.41 | n.d. | 35.57 | 25.62 | n.d. | 99.46 |
|102| 7.81 | 6.99 | n.d. | n.d. | 63.68 | 20.72 | 0.79 | 99.99 |
|103| 1.75 | 2.20 | 0.83 | 0.32 | 42.13 | 52.06 | 0.36 | 99.64 |
|104| 12.34 | 36.57 | n.d. | n.d. | 31.58 | 19.18 | n.d. | 99.66 |
|105| 3.56 | 9.79 | 0.46 | n.d. | 56.05 | 0.76 | 29.93 | n.d. | 100.55 |
|106| 13.22 | 27.33 | n.d. | n.d. | 46.81 | 12.57 | n.d. | 99.93 |
|107| 6.27 | 14.30 | 1.08 | n.d. | 49.90 | 28.09 | n.d. | 99.64 |
|108| 5.97 | 17.41 | n.d. | n.d. | 51.94 | 24.16 | 0.48 | 99.95 |
|109| 10.04 | 29.29 | 0.46 | n.d. | 37.47 | 22.28 | n.d. | 99.54 |
|110| 12.40 | 10.82 | n.d. | n.d. | 58.24 | 0.43 | 17.57 | n.d. | 99.47 |
|111| 10.98 | 16.28 | n.d. | n.d. | 54.88 | 17.63 | 0.37 | 100.14 |
|112| 11.44 | 11.12 | n.d. | n.d. | 57.35 | 20.37 | n.d. | 100.28 |
|113| 14.85 | 40.95 | n.d. | n.d. | 32.11 | 12.31 | n.d. | 100.22 |
|114| 7.44 | 11.25 | n.d. | n.d. | 62.95 | 18.13 | 0.99 | 100.76 |
|115| 8.72 | 10.91 | n.d. | 0.39 | 59.97 | 17.43 | 2.42 | 99.85 |
|116| 10.38 | 12.17 | n.d. | n.d. | 58.30 | 2.35 | 16.39 | 0.4 | 100.00 |
|117| 8.70 | 40.20 | n.d. | n.d. | 23.15 | 27.62 | n.d. | 99.67 |
|118| 9.78 | 33.92 | 0.21 | n.d. | 33.60 | 22.51 | n.d. | 100.01 |
|119| 5.59 | 14.00 | 0.40 | 0.23 | 56.46 | 23.35 | n.d. | 100.04 |
|120| 19.41 | 21.02 | n.d. | n.d. | 31.01 | 27.54 | n.d. | 99.92 |
|121| 11.34 | 32.40 | n.d. | n.d. | 40.20 | 15.78 | 0.47 | 100.18 |
|122| 4.99 | 16.72 | 0.62 | n.d. | 45.46 | 31.19 | n.d. | 98.97 |
|123| 10.95 | 16.84 | 0.35 | n.d. | 53.23 | 18.81 | n.d. | 100.19 |
|124| 12.26 | 26.47 | n.d. | n.d. | 47.10 | 13.08 | n.d. | 98.91 |
|125| 6.68 | 16.99 | n.d. | 0.27 | 48.13 | 0.56 | 27.77 | n.d. | 100.40 |
|126| 3.25 | 8.09 | n.d. | n.d. | 42.00 | 45.16 | n.d. | 98.50 |
|127| 10.14 | 26.77 | 0.43 | n.d. | 40.08 | 22.13 | n.d. | 99.54 |
|128| 9.76 | 23.03 | n.d. | 0.27 | 50.99 | 15.52 | n.d. | 99.58 |
|129| 6.90 | 29.73 | 0.66 | 0.26 | 27.16 | 0.51 | 33.78 | 0.46 | 99.46 |
|130| 10.81 | 21.04 | n.d. | n.d. | 47.43 | 0.40 | 19.86 | n.d. | 99.54 |
|131| 12.67 | 16.49 | n.d. | n.d. | 55.58 | 0.44 | 15.63 | n.d. | 100.81 |
|132| 8.64 | 45.02 | n.d. | n.d. | 16.30 | 29.27 | 0.51 | 99.74 |
|133| 13.63 | 44.44 | 0.26 | n.d. | 21.14 | 19.99 | n.d. | 99.47 |
|134| 3.73 | 6.34 | n.d. | n.d. | 64.10 | 0.87 | 23.29 | 1.32 | 99.64 |
|135| 12.11 | 21.80 | 1.05 | n.d. | 46.30 | 18.03 | n.d. | 99.29 |
|136| 8.36 | 26.00 | n.d. | n.d. | 43.84 | 21.01 | 0.39 | 99.60 |
|137| 8.97 | 19.02 | 0.62 | 0.33 | 45.14 | 25.23 | n.d. | 99.31 |
|138| 12.02 | 29.16 | n.d. | n.d. | 40.34 | 17.94 | n.d. | 99.45 |
|139| 1.71 | 0.57 | n.d. | 0.39 | 44.77 | 0.66 | 51.55 | n.d. | 99.65 |
|140| 9.20 | 19.17 | n.d. | n.d. | 55.59 | 15.77 | n.d. | 99.72 |
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 141 | 9.81 | 17.51 | 1.95 | 0.38 | 46.70 | n.d. | 22.96 | n.d. | 99.31 |
| 142 | 4.76 | 7.51 | 0.51 | n.d. | 61.12 | n.d. | 26.18 | 0.39 | 100.46 |
| 143 | 4.94 | 18.90 | 0.64 | n.d. | 37.30 | 0.52 | 36.99 | n.d. | 99.29 |
| 144 | 3.10 | 14.78 | 1.14 | n.d. | 47.43 | 0.58 | 30.94 | 2.17 | 100.15 |
| 145 | 12.22 | 18.60 | 0.31 | n.d. | 52.48 | n.d. | 15.56 | n.d. | 99.18 |
| 146 | 2.68 | 3.04 | 0.68 | n.d. | 44.47 | n.d. | 48.16 | n.d. | 99.03 |
| 147 | 7.40 | 19.08 | n.d. | n.d. | 51.54 | n.d. | 20.80 | 0.66 | 99.49 |
| 148 | 9.06 | 20.05 | 0.66 | 0.30 | 44.21 | n.d. | 25.58 | n.d. | 99.86 |
| 149 | 10.26 | 22.94 | 1.97 | n.d. | 41.10 | n.d. | 24.00 | n.d. | 100.27 |
| 150 | 4.98 | 9.76 | n.d. | n.d. | 57.93 | 3.60 | 15.35 | 7.06 | 98.68 |
| 151 | 8.23 | 27.95 | 0.44 | 0.30 | 36.78 | n.d. | 26.45 | n.d. | 100.15 |
| 152 | 7.13 | 13.11 | n.d. | n.d. | 59.98 | n.d. | 18.55 | 1.16 | 99.93 |
| 153 | 1.07 | 11.91 | 0.35 | n.d. | 56.37 | 0.70 | 28.61 | 1.19 | 100.21 |
| 154 | 3.37 | 10.52 | 0.99 | n.d. | 54.04 | n.d. | 29.70 | 0.46 | 99.09 |
| 155 | 9.73 | 18.11 | 1.35 | n.d. | 54.63 | 0.52 | 15.24 | n.d. | 99.57 |
| 156 | 14.04 | 37.05 | n.d. | n.d. | 32.40 | n.d. | 15.94 | n.d. | 99.43 |
| 157 | 14.07 | 37.41 | n.d. | 0.26 | 32.72 | n.d. | 15.38 | n.d. | 99.84 |
| 158 | 13.38 | 37.79 | n.d. | n.d. | 33.23 | n.d. | 15.40 | n.d. | 99.80 |
| 159 | 3.19 | 12.70 | 1.12 | 0.30 | 40.66 | 0.61 | 40.96 | 0.49 | 100.02 |
| 160 | 6.39 | 19.94 | 0.48 | n.d. | 36.44 | 0.54 | 36.78 | n.d. | 100.56 |
| 161 | 9.59 | 19.23 | 0.52 | 0.39 | 48.43 | n.d. | 22.13 | n.d. | 100.29 |
| 162 | 4.32 | 8.38 | n.d. | n.d. | 51.87 | 0.58 | 34.58 | 0.70 | 100.43 |
| 163 | 6.58 | 14.74 | 2.06 | 0.29 | 49.12 | n.d. | 27.25 | n.d. | 100.04 |
| 164 | 5.09 | 23.87 | 0.86 | n.d. | 29.15 | 0.35 | 39.19 | n.d. | 98.51 |
| 165 | 6.26 | 14.98 | 2.18 | 0.28 | 47.27 | n.d. | 29.50 | n.d. | 100.48 |
| 166 | 4.20 | 15.14 | 0.87 | 0.41 | 56.23 | 0.58 | 21.29 | n.d. | 98.73 |
| 167 | 2.26 | 2.07 | 1.45 | 0.36 | 51.53 | 0.77 | 40.09 | 0.59 | 99.13 |
| 168 | 5.64 | 14.00 | 0.34 | 0.22 | 53.48 | 0.43 | 23.82 | 1.50 | 99.43 |
| 169 | 2.86 | 2.99 | n.d. | n.d. | 67.02 | 5.67 | 12.74 | 7.11 | 98.39 |
| 170 | 9.20 | 32.63 | 0.72 | n.d. | 37.81 | n.d. | 18.55 | n.d. | 98.92 |
| 171 | 0.33 | 9.47 | 0.54 | n.d. | 52.09 | 2.19 | 32.30 | 3.28 | 100.20 |
| 172 | 12.35 | 22.66 | n.d. | n.d. | 51.20 | 0.60 | 12.24 | n.d. | 99.04 |
| 173 | 11.46 | 14.63 | n.d. | n.d. | 56.39 | n.d. | 17.45 | n.d. | 99.94 |
| 174 | 0.84 | 7.79 | 0.32 | 0.20 | 47.76 | 0.31 | 40.59 | 1.07 | 98.89 |
| 175 | 13.75 | 35.51 | n.d. | n.d. | 35.94 | n.d. | 14.14 | n.d. | 99.34 |
| 176 | 8.57 | 21.45 | n.d. | n.d. | 51.55 | n.d. | 17.87 | n.d. | 99.44 |
| 177 | 15.31 | 34.45 | n.d. | n.d. | 35.23 | n.d. | 14.41 | n.d. | 99.40 |
| 178 | 9.27 | 19.80 | n.d. | n.d. | 53.41 | n.d. | 16.84 | n.d. | 99.32 |
| 179 | 5.70 | 28.86 | 0.68 | n.d. | 26.85 | n.d. | 36.90 | n.d. | 99.00 |
| 180 | 1.97 | 1.44 | 0.79 | n.d. | 49.61 | 0.74 | 44.94 | n.d. | 99.48 |
| 181 | 7.74 | 26.63 | n.d. | n.d. | 42.77 | n.d. | 22.42 | n.d. | 99.56 |
| 182 | 11.24 | 13.47 | 0.41 | n.d. | 54.19 | n.d. | 19.27 | n.d. | 98.59 |
| 183 | 11.08 | 24.66 | 0.29 | n.d. | 49.15 | n.d. | 13.96 | n.d. | 99.14 |
| 184 | 4.18 | 6.31 | n.d. | n.d. | 64.69 | 0.81 | 22.12 | 1.51 | 99.62 |
| 185 | 11.66 | 37.30 | n.d. | n.d. | 34.62 | n.d. | 15.57 | n.d. | 99.15 |

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2.5 Bottaccione section, Italy (Late Cretaceous, Turonian Syn³He)

Samples were collected from 21.6-30.5 m above the Bonarelli shale level.

2.5.1 BOT 30 results

Middle Turonian (Bottaccione, Italy), 29.9-30.5 m above the Bonarelli level, mounts 492 and 493, weight 105.9 kg

EC 32-63 µm

|     | MgO  | Al₂O₃ | TiO₂  | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|-------|------|-------|------|------|------|-------|
| 1   | 2.24 | 5.73  | 3.22  | 0.8  | 61.2  | 0.93 | 25.06| 1.32 | 100.50|
| 2   | 6.55 | 6.85  | 2.47  | 0.73 | 62.84 | 0.74 | 20.67| n.d. | 100.86|
| 3   | 3.20 | 6.59  | 2.00  | 0.72 | 60.42 | 1.37 | 25.65| 1.20 | 101.15|
| 4   | 0.92 | 5.10  | 4.16  | 0.69 | 61.55 | n.d. | 28.52| 0.34 | 101.27|
| 5   | 2.07 | 5.99  | 3.20  | 0.81 | 62.43 | 0.79 | 25.84| 0.48 | 101.60|
| 6   | 2.57 | 7.46  | 2.48  | 0.74 | 65.00 | 1.04 | 19.85| 0.58 | 99.72 |
| 7   | 3.06 | 6.16  | 1.87  | 0.68 | 61.86 | 1.20 | 25.43| 1.02 | 101.29|
| 8   | 2.92 | 6.07  | 2.54  | 0.86 | 59.94 | 1.04 | 27.03| 0.45 | 100.86|
| 9   | 2.76 | 5.86  | 2.32  | 0.74 | 62.02 | 0.85 | 25.01| 1.82 | 101.38|
| 10  | 2.07 | 6.29  | 2.95  | 0.77 | 62.72 | 0.74 | 23.21| 0.50 | 99.24 |
| 11  | 2.51 | 5.85  | 3.94  | 0.63 | 58.69 | 0.63 | 27.66| 0.32 | 100.24|

OtC 32-63 µm

|     | MgO  | Al₂O₃ | TiO₂  | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|-----|------|-------|-------|------|-------|------|------|------|-------|
| 1   | 13.08| 15.29 | 0.42  | n.d. | 53.03 | n.d. | 19.21| n.d. | 101.03|
| 2   | 14.67| 9.20  | 0.61  | n.d. | 58.69 | n.d. | 17.29| n.d. | 100.47|
2.5.2 BOT 26 results

Middle Turonian (Bottaccione, Italy), 25.8-26.3 m above the Bonarelli level, mounts 484 and 485, weight 102 kg

EC >63 µm

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|------|-----|-----|-------|
| 1 | 2.85| 4.45  | 2.25 | 0.88 | 62.77 | 0.96 | 25.51| 0.82 | 100.49|
| 2 | 3.43| 6.65  | 2.15 | 0.73 | 60.1  | 1.09 | 25.37| 0.52 | 100.04|

EC 32-63 µm

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|------|-----|-----|-------|
| 1 | 2.70| 6.31  | 2.45 | 0.73 | 62.32 | 1.10 | 24.00| 0.47 | 100.09|
| 2 | 7.44| 6.07  | 1.81 | 0.75 | 65.71 | n.d. | 16.34| 0.70 | 98.82 |
| 3 | 2.10| 5.72  | 3.71 | 0.79 | 61.88 | 0.82 | 23.87| 1.47 | 100.37|
| 4 | 1.68| 5.86  | 2.93 | 0.88 | 61.80 | 0.77 | 26.38| n.d. | 100.29|
| 5 | 4.52| 7.05  | 2.36 | 0.73 | 59.99 | 0.98 | 25.37| 0.62 | 101.62|
| 6 | 1.78| 6.10  | 3.73 | 0.85 | 60.05 | 0.65 | 26.83| 0.44 | 100.43|
| 7 | 2.42| 6.79  | 1.77 | 0.72 | 61.34 | 1.00 | 25.34| 0.47 | 99.84 |
| 8 | 2.65| 6.60  | 1.94 | 0.83 | 63.10 | 1.00 | 22.95| 0.69 | 99.76 |

OtC-V >63 µm

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|------|-----|-----|-------|
| 1 | 5.36| 11.34 | 0.61 | 0.65 | 55.58 | n.d. | 25.48| n.d. | 99.01 |
| 2 | 9.71| 14.57 | 2.61 | 0.66 | 50.07 | 0.50 | 21.31| 0.27 | 99.68 |

OtC-V 32-63 µm

|   | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|---|-----|-------|------|------|-------|------|-----|-----|-------|
| 1 | 4.95| 11.28 | 0.62 | 0.65 | 60.66 | 0.42 | 21.51| n.d. | 100.08|
| 2 | 3.80| 13.99 | 0.87 | 0.65 | 57.59 | n.d. | 22.45| n.d. | 99.35 |
| 3 | 3.72| 5.15  | 0.41 | 0.81 | 64.69 | 0.84 | 24.51| 0.86 | 100.98|
| 4 | 6.54| 11.89 | n.d. | 0.45 | 60.31 | n.d. | 19.61| n.d. | 98.81 |
| 5 | 5.34| 17.54 | 0.80 | 0.66 | 52.78 | 0.58 | 22.39| n.d. | 100.09|
### OtC >63 μm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 12.65| 20.96 | n.d. | n.d. | 48.94 | n.d. | 16.81| n.d. | 99.36 |

### OtC 32-63 μm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 1.09 | 4.61  | 6.57 | 0.64 | 42.26 | 0.62 | 42.92| 0.89 | 99.60 |
| 2  | 1.82 | 0.84  | 0.12 | n.d. | 57.18 | 2.13 | 30.75| 1.82 | 98.59 |
| 3  | 11.92| 28.18 | n.d. | n.d. | 40.88 | 0.37 | 17.75| n.d. | 99.10 |
| 4  | 14.98| 37.07 | n.d. | n.d. | 33.08 | n.d. | 14.27| n.d. | 99.40 |
| 5  | 11.24| 26.20 | n.d. | 0.27 | 43.66 | n.d. | 18.09| n.d. | 99.45 |
| 6  | 11.04| 30.01 | 0.32 | 0.32 | 38.06 | 0.20 | 19.03| n.d. | 98.98 |
| 7  | 4.94 | 8.00  | n.d. | n.d. | 62.83 | n.d. | 24.55| n.d. | 100.32|
| 8  | 9.09 | 14.05 | n.d. | 0.29 | 58.03 | 0.51 | 17.57| 0.30 | 99.85 |
| 9  | 14.42| 26.41 | n.d. | n.d. | 45.52 | n.d. | 14.23| n.d. | 100.59|
| 10 | 8.00 | 16.07 | n.d. | n.d. | 56.81 | 0.42 | 17.46| n.d. | 98.76 |

### 2.5.3 BOT 25 results

Middle Turonian (Bottaccione, Italy), 23.4-24.9 m above the Bonarelli level, mount 496, weight 100.7 kg

### EC >63 μm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 2.59 | 5.66  | 3.63 | 0.68 | 60.24 | 0.70 | 26.11| 0.40 | 100.03|

### EC 32-63 μm

|    | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|----|------|-------|------|------|-------|------|------|------|-------|
| 1  | 3.72 | 6.91  | 2.05 | 0.77 | 65.61 | 0.88 | 18.17| 0.51 | 98.62 |
| 2  | 3.25 | 5.68  | 2.98 | 0.75 | 59.93 | 0.75 | 27.65| n.d. | 101.00|
| 3  | 2.28 | 6.50  | 3.53 | 0.82 | 66.55 | 0.91 | 18.67| 0.97 | 100.23|
| 4  | 3.02 | 6.08  | 1.53 | 0.71 | 61.81 | 1.18 | 24.95| 1.48 | 100.76|
| 5  | 2.23 | 5.51  | 3.20 | 0.70 | 62.95 | 0.61 | 24.90| 0.28 | 100.38|
| 6  | 2.90 | 6.48  | 1.84 | 0.73 | 63.99 | 1.15 | 21.69| 0.92 | 99.70 |
| 7  | 2.05 | 6.04  | 3.20 | 0.70 | 60.85 | 0.68 | 24.99| 0.74 | 99.27 |
| 8  | 4.70 | 6.45  | 2.15 | 0.69 | 60.54 | 0.84 | 24.52| 0.43 | 100.32|
| 9  | 4.72 | 5.20  | 2.36 | 0.75 | 61.46 | 0.89 | 23.70| 0.87 | 99.96 |
### OtC-V 32-63 μm

|       | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO    | ZnO  | Total  |
|-------|------|-------|-------|-------|-------|------|--------|------|--------|
| 1     | 4.67 | 8.41  | 0.81  | 0.86  | 64.38 | 1.20 | 15.51  | 4.49 | 100.33 |
| 2     | 4.80 | 14.33 | 2.59  | 0.47  | 40.85 | 0.55 | 36.34  | n.d. | 99.92  |
| 3     | 3.62 | 10.36 | 1.48  | 0.79  | 58.07 | 0.64 | 25.31  | n.d. | 100.28 |
| 4     | 6.40 | 13.38 | 0.95  | 0.68  | 54.16 | 0.78 | 24.05  | n.d. | 100.39 |
| 5     | 5.51 | 13.45 | 0.39  | 0.54  | 46.42 | 0.48 | 33.30  | 0.43 | 100.52 |

### OtC >63 μm

|       | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO    | ZnO  | Total  |
|-------|------|-------|-------|-------|-------|------|--------|------|--------|
| 1     | 9.96 | 20.30 | n.d.  | n.d.  | 53.75 | n.d. | 14.20  | n.d. | 98.21  |
| 2     | 9.19 | 20.92 | n.d.  | 0.28  | 47.49 | n.d. | 21.76  | 0.51 | 100.16 |

### OtC 32-63 μm

|       | MgO  | Al₂O₃ | TiO₂  | V₂O₃  | Cr₂O₃ | MnO  | FeO    | ZnO  | Total  |
|-------|------|-------|-------|-------|-------|------|--------|------|--------|
| 1     | 8.64 | 27.29 | 0.40  | 0.36  | 37.87 | 0.47 | 23.69  | 0.37 | 99.09  |
| 2     | 12.95| 30.83 | 0.27  | 0.24  | 37.33 | 0.40 | 17.45  | n.d. | 99.48  |
| 3     | 9.39 | 21.96 | n.d.  | n.d.  | 48.53 | 0.55 | 18.79  | 0.30 | 99.51  |
| 4     | 5.96 | 9.23  | 0.25  | n.d.  | 53.68 | n.d. | 30.61  | n.d. | 99.73  |
| 5     | 10.00| 29.52 | 2.89  | n.d.  | 22.90 | 0.73 | 34.43  | n.d. | 100.47 |
| 6     | 10.61| 15.77 | 5.24  | 0.31  | 30.62 | 0.40 | 36.88  | n.d. | 99.82  |
| 7     | 21.83| 12.65 | 0.33  | n.d.  | 21.22 | 1.06 | 42.50  | n.d. | 99.59  |
| 8     | 5.45 | 8.25  | 0.29  | n.d.  | 67.08 | 0.52 | 18.19  | 0.56 | 100.33 |
| 9     | 11.17| 36.04 | n.d.  | 0.27  | 36.48 | 0.32 | 15.27  | 0.53 | 100.36 |
| 10    | 12.91| 29.66 | n.d.  | n.d.  | 43.02 | 0.32 | 14.60  | n.d. | 100.52 |
| 11    | 9.05 | 18.99 | n.d.  | 0.24  | 55.11 | 0.40 | 15.83  | n.d. | 99.62  |
| 12    | 14.51| 30.96 | 0.51  | n.d.  | 35.51 | 0.39 | 17.87  | n.d. | 99.76  |
| 13    | 11.69| 31.75 | n.d.  | 0.25  | 39.52 | n.d. | 16.65  | n.d. | 99.86  |
| 14    | 19.51| 14.58 | 1.19  | 0.28  | 52.48 | 0.60 | 8.92   | n.d. | 99.09b |

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### 2.5.4 BOT 22 results

Middle Turonian (Bottaccione. Italy), 21.6-22.1 m above the Bonarelli level, mount 495, weight 100.5 kg

**EC 32-63 µm**

|   | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|------|-------|------|------|-------|------|------|------|-------|
| 1 | 2.31 | 5.69  | 2.95 | 0.71 | 58.08 | 0.99 | 28.31| 0.83 | 99.87 |
| 2 | 2.90 | 6.24  | 2.19 | 0.75 | 60.02 | 1.14 | 26.72| 0.34 | 100.30|
| 3 | 2.67 | 5.39  | 3.27 | 0.75 | 60.31 | 0.94 | 26.53| 0.92 | 100.78|
| 4 | 2.50 | 8.58  | 1.17 | 0.96 | **66.11** | 1.03 | **16.93** | 1.47 | 98.75 |
| 5 | 2.98 | 7.41  | 1.83 | 0.83 | 61.27 | 1.75 | 20.02| 4.79 | 100.87|
| 6 | 3.00 | 6.40  | 2.65 | 0.66 | 59.94 | 1.10 | 26.12| 0.60 | 100.47|
| 7 | 3.79 | 7.36  | 1.44 | 0.85 | 63.61 | 1.05 | 18.80| 1.20 | 98.10 |
| 8 | 1.99 | 6.08  | 2.95 | 0.79 | 59.99 | 0.76 | 25.84| 0.94 | 99.34 |
| 9 | 1.50 | 6.16  | 4.26 | 0.84 | 61.58 | 0.65 | 23.98| 0.46 | 99.45 |
|10 | 2.19 | 6.28  | 3.07 | 0.77 | 62.14 | 0.84 | 25.17| 0.80 | 101.26|
|11 | 3.05 | 5.39  | 1.94 | 0.79 | 63.12 | 1.05 | 24.52| 1.10 | 100.96|
|12 | 6.83 | 5.95  | 2.32 | 0.56 | 62.56 | 0.65 | 20.63| n.d. | 99.48 |
|13 | 2.20 | 5.13  | 3.48 | 0.77 | 61.58 | 0.62 | 25.81| 0.50 | 100.10|
|14 | 1.95 | 5.57  | 2.91 | 0.69 | 60.76 | 0.76 | 27.00| 0.36 | 99.99 |
|15 | 1.21 | 5.39  | 2.63 | 0.54 | 56.55 | 0.44 | 31.91| n.d. | 98.66 |
|16 | 2.32 | 6.03  | 2.35 | 0.76 | 61.63 | 0.78 | 26.22| 0.46 | 100.54|

**OtC-V 32-63 µm**

|   | MgO  | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO  | FeO  | ZnO  | Total |
|---|------|-------|------|------|-------|------|------|------|-------|
| 1 | 3.94 | 21.04 | 4.63 | 0.61 | 34.87 | n.d. | 33.75| n.d. | 98.83 |
| 2 | 3.52 | 10.42 | 0.36 | 0.90 | 62.46 | 0.81 | 21.03| 0.35 | 99.85 |
| 3 | 1.71 | 0.93  | 1.22 | 0.86 | 72.19 | 0.76 | 19.32| 1.01 | 98.00 |
| 4 | 8.79 | 41.13 | 1.20 | 0.58 | 21.39 | n.d. | 26.14| n.d. | 99.25 |
| 5 | 2.31 | 5.63  | **1.03** | 0.46 | **66.51** | 0.50 | 20.37| 2.01 | 98.83 |
| 6 | 6.42 | 19.17 | 0.58 | 0.60 | 45.55 | n.d. | 26.83| n.d. | 99.15 |
| 7 | 6.01 | 7.99  | 0.82 | 0.57 | 61.65 | 0.66 | 22.53| n.d. | 100.24|
| 8 | 14.43| 14.80 | n.d. | n.d. | 50.64 | 0.53 | 18.45| n.d. | 98.86 |
| 9 | 0.86 | 12.41 | 2.12 | 0.65 | 53.09 | n.d. | 28.65| n.d. | 97.77 |
Otv 32-63 µm

|    | MgO | Al₂O₃ | TiO₂ | V₂O₃ | Cr₂O₃ | MnO | FeO | ZnO | Total |
|----|-----|-------|------|------|-------|-----|-----|-----|-------|
| 1  | 10.92 | 32.69 | 0.56 | 0.29 | 33.09 | 0.53 | 22.39 | 0.68 | 101.15 |
| 2  | 12.39 | 33.58 | n.d. | n.d. | 38.40 | n.d. | 14.45 | 0.77 | 99.59 |
| 3  | 1.48  | 2.74  | 0.74 | n.d. | 38.49 | 1.83 | 36.32 | 0.46 | 88.26 |
| 4  | 13.47 | 28.32 | 0.66 | 0.23 | 35.65 | n.d. | 19.73 | n.d. | 98.06 |
| 5  | 11.97 | 11.46 | 1.26 | n.d. | 43.93 | 0.72 | 29.82 | n.d. | 99.17 |
| 6  | 10.99 | 24.27 | n.d. | 0.31 | 46.95 | 0.38 | 17.11 | n.d. | 100.01 |
| 7  | 10.92 | 20.83 | n.d. | 0.28 | 52.50 | n.d. | 14.35 | n.d. | 99.15b |
| 8  | 18.08 | 42.27 | 0.22 | n.d. | 24.50 | n.d. | 13.43 | n.d. | 98.50 |
| 9  | 15.06 | 26.90 | 3.49 | n.d. | 24.10 | n.d. | 28.58 | n.d. | 98.12 |
| 10 | 11.16 | 15.43 | 6.09 | n.d. | 30.77 | n.d. | 36.8  | n.d. | 100.24 |