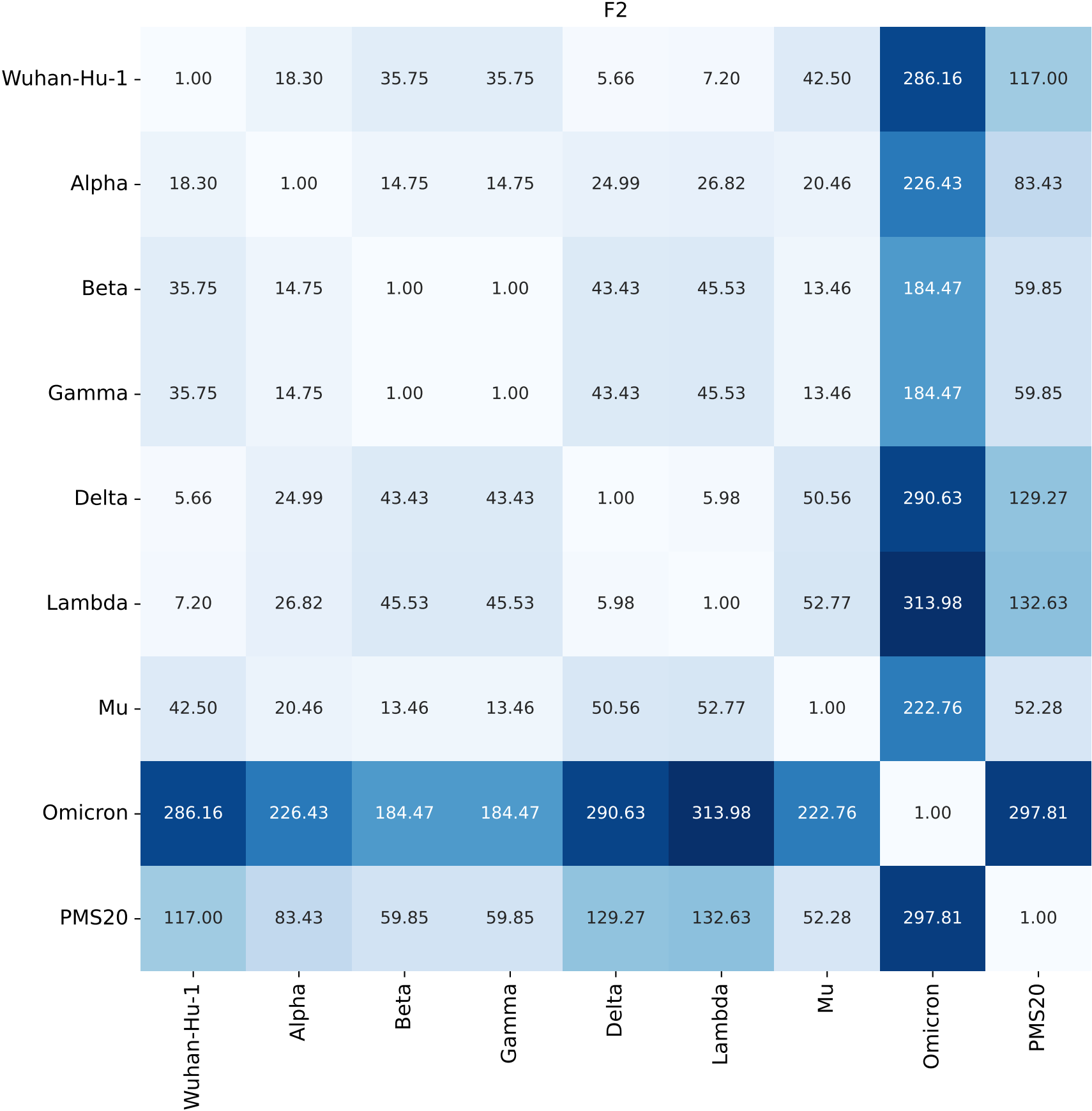


| | | F1 | | | | | | | | |
|--------------|--|--------------|---------|--------|---------|---------|----------|--------|-----------|---------|
| Wuhan-Hu-1 - | | 1.00 | 24.70 | 41.81 | 41.81 | 38.77 | 33.19 | 50.03 | 576.59 | 210.27 |
| Alpha - | | 24.70 | 1.00 | 13.72 | 13.72 | 73.04 | 66.09 | 20.31 | 442.57 | 148.81 |
| Beta - | | 41.81 | 13.72 | 1.00 | 1.00 | 96.79 | 88.88 | 10.34 | 377.10 | 118.78 |
| Gamma - | | 41.81 | 13.72 | 1.00 | 1.00 | 96.79 | 88.88 | 10.34 | 377.10 | 118.78 |
| Delta - | | 38.77 | 73.04 | 96.79 | 96.79 | 1.00 | 16.14 | 108.19 | 675.92 | 330.54 |
| Lambda - | | 33.19 | 66.09 | 88.88 | 88.88 | 16.14 | 1.00 | 99.82 | 801.13 | 313.24 |
| Mu - | | 50.03 | 20.31 | 10.34 | 10.34 | 108.19 | 99.82 | 1.00 | 426.45 | 106.81 |
| Omicron - | | 576.59 | 442.57 | 377.10 | 377.10 | 675.92 | 801.13 | 426.45 | 1.00 | 597.86 |
| PMS20 - | | 210.27 | 148.81 | 118.78 | 118.78 | 330.54 | 313.24 | 106.81 | 597.86 | 1.00 |
| | | Wuhan-Hu-1 - | Alpha - | Beta - | Gamma - | Delta - | Lambda - | Mu - | Omicron - | PMS20 - |





| A | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 8.92 | 56.36 | 56.36 | 2.21 | 12.32 | 45.96 | 262.74 | 255.10 |
| Alpha | 8.92 | 1.00 | 43.56 | 43.56 | 11.33 | 22.34 | 34.00 | 233.03 | 226.02 |
| Beta | 56.36 | 43.56 | 1.00 | 1.00 | 59.82 | 75.62 | 57.86 | 131.99 | 127.10 |
| Gamma | 56.36 | 43.56 | 1.00 | 1.00 | 59.82 | 75.62 | 57.86 | 131.99 | 127.10 |
| Delta | 2.21 | 11.33 | 59.82 | 59.82 | 1.00 | 12.54 | 49.18 | 262.02 | 262.95 |
| Lambda | 12.32 | 22.34 | 75.62 | 75.62 | 12.54 | 1.00 | 63.94 | 307.42 | 298.84 |
| Mu | 45.96 | 34.00 | 57.86 | 57.86 | 49.18 | 63.94 | 1.00 | 266.22 | 143.29 |
| Omicron | 262.74 | 233.03 | 131.99 | 131.99 | 262.02 | 307.42 | 266.22 | 1.00 | 352.11 |
| PMS20 | 255.10 | 226.02 | 127.10 | 127.10 | 262.95 | 298.84 | 143.29 | 352.11 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| Wuhan-Hu-1 | 1.00 | 3.63 | 28.57 | 28.57 | 12.04 | 28.46 | 34.21 | 126.88 | 103.96 |
|------------|------------|--------|-------|-------|--------|--------|--------|---------|--------|
| Alpha | 3.63 | 1.00 | 24.07 | 24.07 | 16.10 | 33.13 | 29.51 | 118.93 | 96.81 |
| Beta | 28.57 | 24.07 | 1.00 | 1.00 | 44.05 | 65.17 | 16.81 | 76.46 | 58.63 |
| Gamma | 28.57 | 24.07 | 1.00 | 1.00 | 44.05 | 65.17 | 16.81 | 76.46 | 58.63 |
| Delta | 12.04 | 16.10 | 44.05 | 44.05 | 1.00 | 32.89 | 50.36 | 119.32 | 128.51 |
| Lambda | 28.46 | 33.13 | 65.17 | 65.17 | 32.89 | 1.00 | 72.41 | 191.46 | 162.02 |
| Mu | 34.21 | 29.51 | 16.81 | 16.81 | 50.36 | 72.41 | 1.00 | 106.11 | 51.97 |
| Omicron | 126.88 | 118.93 | 76.46 | 76.46 | 119.32 | 191.46 | 106.11 | 1.00 | 155.75 |
| PMS20 | 103.96 | 96.81 | 58.63 | 58.63 | 128.51 | 162.02 | 51.97 | 155.75 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| C | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 3.91 | 70.51 | 70.51 | 27.18 | 69.02 | 109.41 | 216.88 | 237.17 |
| Alpha | 3.91 | 1.00 | 64.10 | 64.10 | 32.15 | 75.63 | 101.53 | 204.96 | 224.50 |
| Beta | 70.51 | 64.10 | 1.00 | 1.00 | 116.86 | 188.21 | 28.61 | 85.84 | 97.74 |
| Gamma | 70.51 | 64.10 | 1.00 | 1.00 | 116.86 | 188.21 | 28.61 | 85.84 | 97.74 |
| Delta | 27.18 | 32.15 | 116.86 | 116.86 | 1.00 | 39.13 | 166.33 | 284.97 | 328.82 |
| Lambda | 69.02 | 75.63 | 188.21 | 188.21 | 39.13 | 1.00 | 253.94 | 435.60 | 469.90 |
| Mu | 109.41 | 101.53 | 28.61 | 28.61 | 166.33 | 253.94 | 1.00 | 139.01 | 61.01 |
| Omicron | 216.88 | 204.96 | 85.84 | 85.84 | 284.97 | 435.60 | 139.01 | 1.00 | 222.03 |
| PMS20 | 237.17 | 224.50 | 97.74 | 97.74 | 328.82 | 469.90 | 61.01 | 222.03 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| D1 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 14.15 | 43.14 | 43.14 | 38.96 | 59.84 | 101.92 | 365.50 | 222.14 |
| Alpha | 14.15 | 1.00 | 25.39 | 25.39 | 58.63 | 82.46 | 76.88 | 307.78 | 182.20 |
| Beta | 43.14 | 25.39 | 1.00 | 1.00 | 98.91 | 128.79 | 49.67 | 225.20 | 125.06 |
| Gamma | 43.14 | 25.39 | 1.00 | 1.00 | 98.91 | 128.79 | 49.67 | 225.20 | 125.06 |
| Delta | 38.96 | 58.63 | 98.91 | 98.91 | 1.00 | 32.77 | 180.59 | 460.37 | 347.66 |
| Lambda | 59.84 | 82.46 | 128.79 | 128.79 | 32.77 | 1.00 | 222.74 | 644.03 | 414.90 |
| Mu | 101.92 | 76.88 | 49.67 | 49.67 | 180.59 | 222.74 | 1.00 | 386.72 | 59.54 |
| Omicron | 365.50 | 307.78 | 225.20 | 225.20 | 460.37 | 644.03 | 386.72 | 1.00 | 558.72 |
| PMS20 | 222.14 | 182.20 | 125.06 | 125.06 | 347.66 | 414.90 | 59.54 | 558.72 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| D2 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 60.95 | 88.11 | 88.11 | 5.13 | 7.33 | 132.39 | 780.12 | 394.39 |
| Alpha | 60.95 | 1.00 | 16.88 | 16.88 | 69.20 | 72.75 | 44.39 | 446.84 | 207.17 |
| Beta | 88.11 | 16.88 | 1.00 | 1.00 | 97.76 | 101.91 | 26.02 | 367.87 | 162.82 |
| Gamma | 88.11 | 16.88 | 1.00 | 1.00 | 97.76 | 101.91 | 26.02 | 367.87 | 162.82 |
| Delta | 5.13 | 69.20 | 97.76 | 97.76 | 1.00 | 5.84 | 144.30 | 792.56 | 419.74 |
| Lambda | 7.33 | 72.75 | 101.91 | 101.91 | 5.84 | 1.00 | 149.43 | 844.66 | 430.64 |
| Mu | 132.39 | 44.39 | 26.02 | 26.02 | 144.30 | 149.43 | 1.00 | 489.60 | 112.75 |
| Omicron | 780.12 | 446.84 | 367.87 | 367.87 | 792.56 | 844.66 | 489.60 | 1.00 | 712.64 |
| PMS20 | 394.39 | 207.17 | 162.82 | 162.82 | 419.74 | 430.64 | 112.75 | 712.64 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| E1 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 17.43 | 41.32 | 41.32 | 16.09 | 23.07 | 71.39 | 462.66 | 267.26 |
| Alpha | 17.43 | 1.00 | 20.34 | 20.34 | 36.32 | 44.51 | 45.95 | 379.16 | 212.76 |
| Beta | 41.32 | 20.34 | 1.00 | 1.00 | 64.05 | 73.91 | 43.67 | 298.16 | 159.88 |
| Gamma | 41.32 | 20.34 | 1.00 | 1.00 | 64.05 | 73.91 | 43.67 | 298.16 | 159.88 |
| Delta | 16.09 | 36.32 | 64.05 | 64.05 | 1.00 | 11.01 | 98.96 | 523.75 | 326.33 |
| Lambda | 23.07 | 44.51 | 73.91 | 73.91 | 11.01 | 1.00 | 110.92 | 592.45 | 351.97 |
| Mu | 71.39 | 45.95 | 43.67 | 43.67 | 98.96 | 110.92 | 1.00 | 472.03 | 114.28 |
| Omicron | 462.66 | 379.16 | 298.16 | 298.16 | 523.75 | 592.45 | 472.03 | 1.00 | 530.99 |
| PMS20 | 267.26 | 212.76 | 159.88 | 159.88 | 326.33 | 351.97 | 114.28 | 530.99 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| E3 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 10.86 | 37.95 | 37.95 | 4.13 | 5.68 | 39.66 | 198.20 | 113.78 |
| Alpha | 10.86 | 1.00 | 24.43 | 24.43 | 15.44 | 17.16 | 25.97 | 168.98 | 92.84 |
| Beta | 37.95 | 24.43 | 1.00 | 1.00 | 43.65 | 45.78 | 17.11 | 116.17 | 54.97 |
| Gamma | 37.95 | 24.43 | 1.00 | 1.00 | 43.65 | 45.78 | 17.11 | 116.17 | 54.97 |
| Delta | 4.13 | 15.44 | 43.65 | 43.65 | 1.00 | 7.88 | 45.43 | 192.13 | 122.62 |
| Lambda | 5.68 | 17.16 | 45.78 | 45.78 | 7.88 | 1.00 | 47.59 | 215.14 | 125.92 |
| Mu | 39.66 | 25.97 | 17.11 | 17.11 | 45.43 | 47.59 | 1.00 | 153.16 | 53.08 |
| Omicron | 198.20 | 168.98 | 116.17 | 116.17 | 192.13 | 215.14 | 153.16 | 1.00 | 152.78 |
| PMS20 | 113.78 | 92.84 | 54.97 | 54.97 | 122.62 | 125.92 | 53.08 | 152.78 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| F1 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 24.70 | 41.81 | 41.81 | 38.77 | 33.19 | 50.03 | 576.59 | 210.27 |
| Alpha | 24.70 | 1.00 | 13.72 | 13.72 | 73.04 | 66.09 | 20.31 | 442.57 | 148.81 |
| Beta | 41.81 | 13.72 | 1.00 | 1.00 | 96.79 | 88.88 | 10.34 | 377.10 | 118.78 |
| Gamma | 41.81 | 13.72 | 1.00 | 1.00 | 96.79 | 88.88 | 10.34 | 377.10 | 118.78 |
| Delta | 38.77 | 73.04 | 96.79 | 96.79 | 1.00 | 16.14 | 108.19 | 675.92 | 330.54 |
| Lambda | 33.19 | 66.09 | 88.88 | 88.88 | 16.14 | 1.00 | 99.82 | 801.13 | 313.24 |
| Mu | 50.03 | 20.31 | 10.34 | 10.34 | 108.19 | 99.82 | 1.00 | 426.45 | 106.81 |
| Omicron | 576.59 | 442.57 | 377.10 | 377.10 | 675.92 | 801.13 | 426.45 | 1.00 | 597.86 |
| PMS20 | 210.27 | 148.81 | 118.78 | 118.78 | 330.54 | 313.24 | 106.81 | 597.86 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| F2 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 18.30 | 35.75 | 35.75 | 5.66 | 7.20 | 42.50 | 286.16 | 117.00 |
| Alpha | 18.30 | 1.00 | 14.75 | 14.75 | 24.99 | 26.82 | 20.46 | 226.43 | 83.43 |
| Beta | 35.75 | 14.75 | 1.00 | 1.00 | 43.43 | 45.53 | 13.46 | 184.47 | 59.85 |
| Gamma | 35.75 | 14.75 | 1.00 | 1.00 | 43.43 | 45.53 | 13.46 | 184.47 | 59.85 |
| Delta | 5.66 | 24.99 | 43.43 | 43.43 | 1.00 | 5.98 | 50.56 | 290.63 | 129.27 |
| Lambda | 7.20 | 26.82 | 45.53 | 45.53 | 5.98 | 1.00 | 52.77 | 313.98 | 132.63 |
| Mu | 42.50 | 20.46 | 13.46 | 13.46 | 50.56 | 52.77 | 1.00 | 222.76 | 52.28 |
| Omicron | 286.16 | 226.43 | 184.47 | 184.47 | 290.63 | 313.98 | 222.76 | 1.00 | 297.81 |
| PMS20 | 117.00 | 83.43 | 59.85 | 59.85 | 129.27 | 132.63 | 52.28 | 297.81 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |

| F3 | | | | | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|---------|--------|
| Wuhan-Hu-1 | 1.00 | 38.01 | 88.85 | 88.85 | 6.20 | 6.00 | 74.79 | 772.70 | 241.66 |
| Alpha | 38.01 | 1.00 | 36.84 | 36.84 | 46.57 | 46.28 | 26.65 | 532.36 | 147.57 |
| Beta | 88.85 | 36.84 | 1.00 | 1.00 | 100.56 | 100.17 | 38.44 | 362.12 | 80.92 |
| Gamma | 88.85 | 36.84 | 1.00 | 1.00 | 100.56 | 100.17 | 38.44 | 362.12 | 80.92 |
| Delta | 6.20 | 46.57 | 100.56 | 100.56 | 1.00 | 4.21 | 85.63 | 787.67 | 262.85 |
| Lambda | 6.00 | 46.28 | 100.17 | 100.17 | 4.21 | 1.00 | 85.27 | 825.03 | 262.15 |
| Mu | 74.79 | 26.65 | 38.44 | 38.44 | 85.63 | 85.27 | 1.00 | 539.75 | 95.47 |
| Omicron | 772.70 | 532.36 | 362.12 | 362.12 | 787.67 | 825.03 | 539.75 | 1.00 | 455.23 |
| PMS20 | 241.66 | 147.57 | 80.92 | 80.92 | 262.85 | 262.15 | 95.47 | 455.23 | 1.00 |
| | Wuhan-Hu-1 | Alpha | Beta | Gamma | Delta | Lambda | Mu | Omicron | PMS20 |