**Appendix:**

Table A1. PM mass composition (mg/m3) obtained by Anderson 8-stage for clustering analysis.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Particle size | 2017/10/16 | 2017/10/28 | 2017/11/6 | 2017/11/12 | 2017/11/19 | 2017/12/3 | 2017/12/10 | 2017/12/17 | 2017/12/24 | 2017/12/31 | 2018/1/7 | 2018/1/15 | 2018/1/22 | Average |
| 9 | 0.4107  | 0.3907  | 0.4582  | 0.2998  | 0.4331  | 0.4778  | 0.6392  | 0.6094  | 0.6027  | 0.5560  | 0.7196  | 0.8274  | 0.5434  | 0.4909  |
| 5.8 | 0.1941  | 0.1809  | 0.2244  | 0.1660  | 0.2117  | 0.2048  | 0.2477  | 0.2551  | 0.2604  | 0.2623  | 0.2914  | 0.3134  | 0.2751  | 0.2228  |
| 4.7 | 0.0733  | 0.1001  | 0.1215  | 0.0714  | 0.3181  | 0.1195  | 0.1427  | 0.1325  | 0.1323  | 0.1232  | 0.1468  | 0.1604  | 0.1606  | 0.1316  |
| 3.3 | 0.0566  | 0.0566  | 0.1017  | 0.0805  | 0.1020  | 0.0961  | 0.1136  | 0.1329  | 0.1223  | 0.1337  | 0.1539  | 0.1888  | 0.1690  | 0.1036  |
| 2.1 | 0.0307  | 0.0313  | 0.0545  | 0.0446  | 0.0578  | 0.0472  | 0.0599  | 0.0636  | 0.0705  | 0.0782  | 0.0845  | 0.1133  | 0.0961  | 0.0551  |
| 1.1 | 0.0085  | 0.0093  | 0.0399  | 0.0153  | 0.0258  | 0.0159  | 0.0178  | 0.0189  | 0.0191  | 0.0298  | 0.0288  | 0.0412  | 0.0309  | 0.0205  |
| 0.7 | 0.0022  | 0.0026  | 0.0401  | 0.0052  | 0.0113  | 0.0025  | 0.0029  | 0.0022  | 0.0028  | 0.0105  | 0.0050  | 0.0061  | 0.0032  | 0.0076  |
| 0.4 | 0.0029  | 0.0038  | 0.0382  | 0.0090  | 0.0191  | 0.0013  | 0.0004  | 0.0011  | 0.0041  | 0.0009  | 0.0072  | 0.0078  | 0.0005  | 0.0089  |
| 0.01 | 0.0039  | 0.0055  | 0.0123  | 0.0064  | 0.0097  | 0.0020  | 0.0027  | 0.0031  | 0.0043  | 0.0109  | 0.0050  | 0.0145  | 0.0044  | 0.0091  |