**Table S2 The results of leaf color grade identification of Chinese cabbage leaves in the validation set based on PLS-DA model**

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Predictand | Actual grade | Recognition rate(%) |
| A | B | C | D | E |
| RGB | A | 16 | 3 | 0 | 0 | 0 | 83% |
| B | 1 | 41 | 6 | 0 | 0 | 85% |
| C | 1 | 10 | 48 | 3 | 0 | 77% |
| D | 0 | 1 | 5 | 56 | 5 | 84% |
| E | 0 | 0 | 1 | 4 | 34 | 87% |
| HSL | A | 17 | 0 | 1 | 0 | 0 | 94% |
| B | 1 | 49 | 5 | 0 | 3 | 84% |
| C | 0 | 6 | 58 | 4 | 0 | 85% |
| D | 1 | 0 | 3 | 57 | 2 | 90% |
| E | 0 | 1 | 0 | 2 | 40 | 93% |
| Multispectral | A | 18 | 1 | 0 | 0 | 0 | 95% |
| B | 0 | 48 | 0 | 0 | 0 | 100% |
| C | 0 | 7 | 62 | 0 | 2 | 87% |
| D | 0 | 3 | 0 | 55 | 1 | 93% |
| E | 0 | 0 | 0 | 0 | 53 | 100% |
| RGB+HSL+Multispectral | A | 18 | 1 | 1 | 0 | 0 | 90% |
| B | 0 | 53 | 2 | 0 | 0 | 96% |
| C | 0 | 0 | 63 | 0 | 0 | 100% |
| D | 0 | 1 | 0 | 56 | 1 | 97% |
| E | 0 | 0 | 1 | 0 | 53 | 98% |