

**Supplementary Table 2.** Composition of volatile organic compounds in leaves

| NO. | RT     | CAS NO.     | Match name                                   | Molecular formula | <i>C. japonese</i> | <i>A. parviflora</i> | <i>A. pacificum</i> |
|-----|--------|-------------|--|-------------------|--------------------|----------------------|---------------------|
| 1   | 7.64   | 80-56-8     | alpha-Pinene                                 | C10H16            | 35.01±4.42         | ND                   | ND                  |
| 2   | 8.03   | 79-92-5     | Camphene                                     | C10H16            | 2.67±0.12          | ND                   | 17.19±0.23          |
| 3   | 10.28  | 470-82-6    | Eucalyptol                                   | C10H18O           | 94.32±5.63         | ND                   | 10.91±0.16          |
| 4   | 10.74  | 13466-78-9  | 3-Carene                                     | C10H16            | ND                 | 6.13±1.27            | ND                  |
| 5   | 11.06  | 99-85-4     | gamma-Terpinene                              | C10H16            | 3.53±1.11          | ND                   | ND                  |
| 6   | 11.30  | 546-79-2    | 5-Isopropyl-2-methylbicyclo[3.1.0]hexan-2-ol | C10H18O           | ND                 | ND                   | 9.2±2.54            |
| 7   | 13.25  | 55722-60-6  | cis-Chrysanthenol                            | C10H16O           | 8.03±2.08          | ND                   | ND                  |
| 8   | 13.51  | 464-49-3    | (+)-2-Bornanone                              | C10H16O           | ND                 | ND                   | 59.44±1.28          |
| 9   | 14.029 | 30460-92-5  | Pinocarvone                                  | C10H14O           | 14.7±2             | ND                   | ND                  |
| 10  | 14.11  | 507-70-0    | endo-Borneol                                 | C10H18O           | ND                 | ND                   | 16.58±1.25          |
| 11  | 17.42  | 5655-61-8   | (-)-Bornyl acetate                           | C12H20O2          | ND                 | ND                   | 45.65±2.08          |
| 12  | 18.01  | 143-13-5    | Acetic acid, nonyl ester                     | C11H22O2          | 86.4±0             | 86.4±0               | 86.4±0              |
| 13  | 18.78  | 29873-99-2  | gamma.-Elemene                               | C15H24            | 10.37±1.09         | 5.33±1.05            | 7.92±1.51           |
| 14  | 20.91  | 20479-06-5  | beta-Ylangene                                | C15H24            | 95.85±12.93        | 86.97±20.43          | 51.28±4.05          |
| 15  | 21.16  | 18252-44-3  | beta-Copaene                                 | C15H24            | 63.47±3.43         | 28.9±7.8             | 28.19±0.49          |
| 16  | 21.53  | 317819-80-0 | Isogermacrene D                              | C15H24            | ND                 | 7.97±1.93            | 17.54±2.79          |
| 17  | 22.00  | 54274-73-6  | (+)-epi-Bicyclosesquiphellandrene            | C15H24            | 18.16±3.2          | ND                   | ND                  |
| 18  | 22.26  | 751-03-1    | Obacunone                                    | C24H22O4          | 16±3.11            | ND                   | ND                  |
| 19  | 22.34  | 94535-52-1  | Isoitalicene                                 | C15H24            | 40.82±1.64         | 34.9±8.47            | ND                  |
| 20  | 22.44  | 23986-74-5  | Germacrene D                                 | C15H24            | 98.17±1.8          | 99.13±10             | 68.57±3.93          |
| 21  | 22.71  | 495-60-3    | zingiberene                                  | C15H24            | ND                 | 12.44±2.36           | ND                  |
| 22  | 22.85  | 30021-74-0  | gamma.-Muurolole                             | C15H24            | 29.13±10.44        | 28.9±10.22           | 5.04±0.82           |
| 23  | 22.98  | 502-61-4    | alpha.-Farnesene                             | C15H24            | ND                 | 8.57±1.96            | ND                  |
| 24  | 23.06  | 18252-46-5  | cis-alpha-Bergamotene                        | C15H24            | ND                 | 9.06±1.08            | ND                  |
| 25  | 23.41  | 523-47-7    | beta-Cadinene                                | C15H24            | 31.63±7.32         | ND                   | ND                  |
| 26  | 23.96  | 43127-93-1  | Dehydroabietol acetate                       | C24H26O2          | 11.47±3.52         | ND                   | ND                  |
| 27  | 25.07  | 560-32-7    | alpha-Patchoulene                            | C15H24            | ND                 | 22.33±2.82           | ND                  |
| 28  | 25.33  | 21966-93-8  | Copaborneol                                  | C15H26O           | ND                 | ND                   | ND                  |
| 29  | 26.45  | 5945-72-2   | Neointermedeol                               | C15H26O           | 36.75±3.09         | ND                   | ND                  |
| 30  | 28.52  | 3321-66-2   | Kessane                                      | C15H26O           | ND                 | ND                   | 13.05±2.77          |
| 31  | 30.17  | 504-96-1    | Neophytadiene                                | C20H38            | 124.66±8.82        | 140.02±13.8          | 88.15±24.72         |
| 32  | 30.31  | 150-86-7    | Phytol                                       | C20H40O           | 4±0.59             | 9.71±2.85            | 4.36±0.61           |
| 33  | 30.67  | 71899-38-2  | 9-Eicosyne                                   | C20H38            | 9.74±3.06          | ND                   | ND                  |
| 34  | 34.68  | 489-39-4    | Aromandendrene                               | C15H24            | ND                 | ND                   | 54.17±2             |
| 35  | 36.69  | 81203-57-8  | Falcarinol                                   | C17H24O           | ND                 | 171.65±4.89          | 0                   |
| 36  | 36.81  | 1191-85-1   | Eicosatetraynoic acid5,8,11,14-              | C20H24O2          | ND                 | ND                   | 100.11±0.93         |
| 37  | 36.92  | 83-48-7     | beta-Stigmasterol                            | C29H48O           | ND                 | 13.51±0.97           | ND                  |
|     |        |             | Total  |                   | 748.48             | 685.52               | 597.35              |