**Supplementary Table 1**. Composition of volatile emissions of mock-inoculated and *Tomato chlorosis virus* (ToCV)-infected potato plants of ‘Agata’ and Bach-4 clones. Relative amounts (mean ± SE ng) estimated based on the peak area of nonyl acetate as internal standard

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clone | Compound | Chemical Group | Relative amount (ng) | *P-*value*\** |
| Mock | ToCV |
| ‘Agata' | methyl salicylate | methyl ester | 1.24 ±0.76 | 1.26 ± 0.09 | 0.987 |
| (*E*)-β-caryophyllene | terpene | 1.26 ± 0.28 | – | **0.021** |
| Bach-4 | 1,8 cineole 1 | terpene | 3.00 ± 0.06 | 1.30 ± 0.43 | 0.152 |
| unknown I | - | 0.54 ± 0.13 | – | 0.105 |
| unknown II | - | 0.35 ± 0.50 | 0.38 ± 0.02 | 0.621 |
| β-elemene 1 | terpene | 10.99 ± 0.93 | – | **0.014** |
| (*E*)-α-bisabolene | terpene | 4.04 ± 0.28 | – | **0.010** |
| germacrene D 1 | terpene | 8.06 ± 0.18 | 1.80 ± 0.60 | **0.009** |
| δ-cadinene 1 | terpene | 2.32 ± 0.04 | – | **0.001** |

\* *P*-values in bold indicate signiﬁcant difference between treatments (Student’s t test or Welch’s test *P* < 0.05)

– indicates the compound was not detected

1 Absolute configuration was not determined for any chiral compound

***Plant volatile profile***

Volatile profiles of the susceptible and moderately resistant potato clone plants differed in qualitative and quantitative terms. For both clones, in general, ToCV-infected plants released smaller amounts of volatiles than did mock-inoculated plants (Online Resource 1). The susceptible clone, ‘Agata’, infected by ToCV released smaller amounts of (*E*)-β-caryophyllene compared to mock-inoculated plants, while the moderately resistant clone, Bach-4, released smaller concentrations of β-elemene, (*E*)-α-bisabolone, and δ-cadinene, (Table 2, Student’s t test or Welch’s test, *P* < 0.05).