Supplementary material

12OHJA, 12OGlcJA, and JA-L-Val as airborne MeJA metabolites

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Figure 1S. Evaluation of the metabolites derived from airborne MeJA using a semi-closed container. Size of the container: 25 x 28 x 40 cm^3

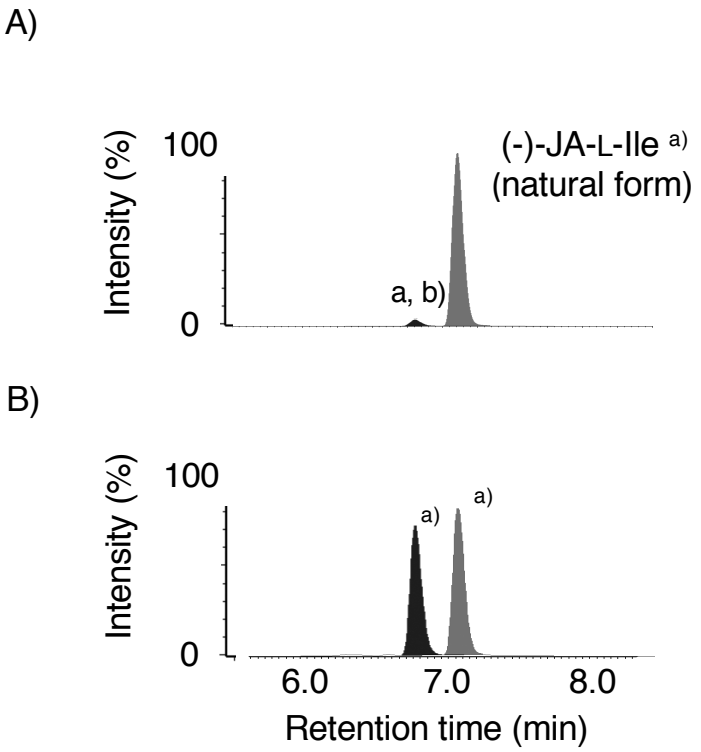

Figure 2S. UPLC MS/MS chromatograph analyzing (-)-JA-L-Ile and (±)-JA-L-Ile.

A) Analyzing (-)-JA-L-Ile synthesized from (-)-JA, B) Analyzing JA-L-Ile synthesized from (±)-JA and L-Ile.

a) The peak was monitored by selecting *m/z* 322.03 as the pseudo molecular ion and *m/z* 129.68 as the the transition ion.

b) The peak derived from *cis* form of (-)-JA-L-Ile, namely (3*R*, 7*S*) JA-L-Ile

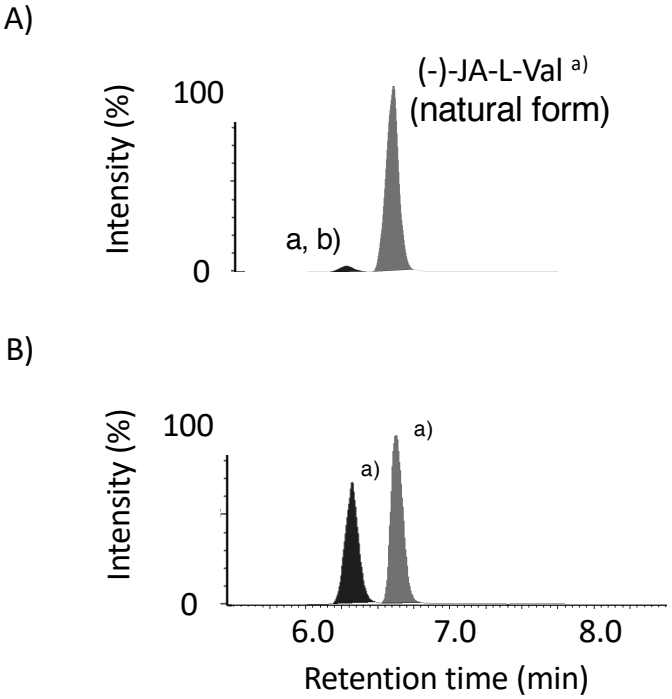

Figure 3S. UPLC MS/MS chromatograph analyzing (-)-JA-L-Val and (±)- JA-L-Val.

A) Analyzing (-)-JA-L-Val synthesized from (-)-JA, B) Analyzing JA-L-Val synthesized from (±)-JA and L-Val.

a) The peak was monitored by selecting *m/z* 308.03 as the pseudo molecular ion and *m/z* 115.58 as the the transition ion.

b) The peak derived from *cis* form of (-)-JA-L-Val, namely (3*R*, 7*S*) JA-L-Val

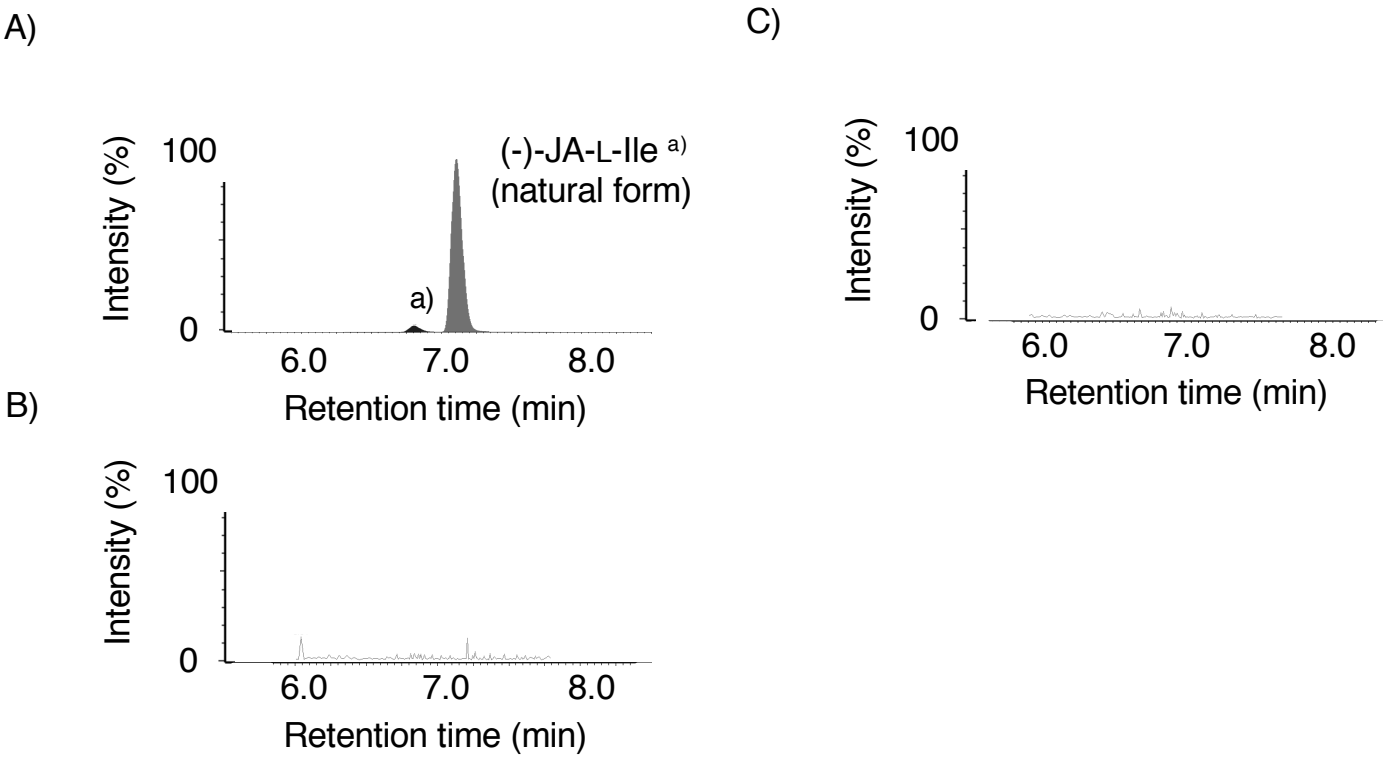

Figure 4S. UPLC MS/MS chromatograph analyzing JA-L-Ile.

A) Analyzing (-)-JA-L-Ile synthesized from (-)-JA. The peaks were monitored by selecting *m/z* 322.03 as the pseudo molecular ion and *m/z* 129.68 as the the transition ion. B) Analyzing (-)-JA-L-Ile-d_5 in the sample derived from (-)-MeJA non-treated plants. The peak was monitored by selecting *m/z* 327.03 as the pseudo molecular ion and *m/z* 129.68 as the the transition ion. C) Analyzing (-)-JA-L-Ile-d_4 in the sample derived from (-)-MeJA non-treated plants. The peaks were monitored by selecting *m/z* 326.03 as the pseudo molecular ion and *m/z* 129.68 as the the transition ion.