### Supplemental Table 1C. Metabolite key for hormone analysis

| Q1<sup>a</sup> | Q3<sup>b</sup> | RT<sup>c</sup> | Metabolite | Formal Name |
|---------------|---------------|--------------|------------|-------------|
| 313.3         | 183.3         | 10.16        | 12,13-DiHOM | threeo-12,13-dihydroxy-9(Z)-octadecenoic acid |
| 309.4         | 208.9         | 12.46        | (E)-KODA   | 12,13-epoxy-9-oxo-10(E)-octadecenoic acid |
| 225           | 59            | 2.44         | 12OH-JA    | 12-hydroxy-jasmonic acid |
| 338.3         | 130.1         | 3.19         | 12OH-JA-Ile | 12-hydroxy-jasmonic acid isoleucine |
| 291.3         | 165           | 11.13        | 12-OPDA    | 12-oxo-10(Z),15(Z)-phytodienoic acid |
| 295.3         | 195.2         | 13.46        | 13-HOD     | 13(S)-hydroxy-9(Z),11(E)-octadecatrienoic acid |
| 293.2         | 113.2         | 14.16        | 13-KOD     | 13-oxo-9(Z),11(E)-octadecadienoic acid |
| 309.4         | 180.8         | 10.32        | 13,12-KODA | 13-hydroxy-12-oxo-9(Z),15(Z)-octadecadienoic acid |
| 311.3         | 194.9         | 11.42        | 13,12-KOMA | 13-hydroxy-12-oxo-9(Z)-octadecenoic acid |
| 293.2         | 191.1         | 15.15        | 2-HOD      | 2-hydroxy-9(Z),15(Z)-octadecadienoic acid |
| 327.1         | 137           | 5.57         | 9,10,11-THOD | 9(S),10(S),11(R)-trihydroxy-12(Z),15(Z)-octadecadienoic acid |
| 329.5         | 201           | 6.69         | 9,10,11-THOM | 9(S),10(S),11(R)-trihydroxy-12(Z)-octadecenoic acid |
| 327.1         | 137           | 4.94         | 9,10,13-THOD | 9(S),10(S),13(S)-trihydroxy-11(E),15(Z)-octadecadienoic acid |
| 329.5         | 139           | 5.8          | 9,10,13-THOM | 9(S),10(S),13(S)-trihydroxy-11(E)-octadecenoic acid |
| 313.2         | 201.2         | 10.46        | 9,10-DiHOM | threeo-9,10-dihydroxy-12(Z)-octadecenoic acid |
| 326.9         | 229.1         | 5            | 9,12,13-THOD | 9(S),12(S),13(S)-trihydroxy-10(E),15(Z)-octadecadienoic acid |
| 329.5         | 210.9         | 5.74         | 9,12,13-THOM | 9(S),12(S),13(S)-trihydroxy-10(E)-octadecenoic acid |
| 295.3         | 171.1         | 13.53        | 9-HOD      | 9(S)-hydroxy-10(E),12(Z)-octadecadienoic acid |
| 293.2         | 171.2         | 12.04        | 9-HOT      | 9(S)-hydroxy-10(E),12(Z),15(Z)-octadecatrienoic acid |
| 293.2         | 195.1         | 12.25        | 9-KOD      | 9(S)-oxo-10(E),12(Z)-octadecatrienoic acid |
| 291.3         | 184.7         | 13.04        | 9-KOT      | 9(S)-oxo-10(E),12(Z),15(Z)-octadecatrienoic acid |
| 311.3         | 293.2         | 11.76        | 9,10-KOMA  | 9-hydroxy-10-oxo-12(Z)-octadecadienoic acid |
| 309.1         | 291.3         | 9.02         | 9,12-KODA  | 9-hydroxy-12-oxo-10(E),15(Z)-octadecadienoic acid |
| 311.3         | 293.1         | 10.29        | 9,12-KOMA  | 9-hydroxy-12-oxo-10(E)-octadecenoic acid |
| 263.4         | 153.1         | 3.33         | ABA        | Abscisic acid |
| 186.9         | 124.9         | 2.83         | AZA        | Azelaic Acid |
| 121.1         | 76.9          | 2.54         | BA         | Benzoic acid |
| 147           | 102.9         | 3.6          | CA         | Cinnamic acid |
| 162.9         | 118.9         | 2.05         | COUMA      | Coumaric acid |
| 263.1         | 165           | 8.29         | dn-12-OPDA | dinor-12-oxo-8(Z),13(Z)-phytodienoic acid |
| 174           | 129.9         | 2.77         | IAA        | Indole-3-acetic acid |
| 209.1         | 59            | 4.24         | JA         | (+)-7-isoojasmonic acid |
| 322.2         | 130           | 6.82         | JA-Ile     | (+)-7-Jasmonoyl-L-isoleucine |
| 237           | 165.1         | 6.38         | OPC-4      | 8-[3-oxo-2-cis-[[Z]-2-pentenyl]cyclopentyl]butanoic acid |
| 311.2         | 183.2         | 10.3         | 12,13-DiHOD* | threeo-12,13-dihydroxy-9(Z),15(Z)-octadecenoic acid |
| 311.2         | 201.2         | 10.35        | 9,10-DiHOD* | threeo-9,10-dihydroxy-12(Z),15(Z)-octadecenoic acid |
| 226.9         | 208.7         | 3.2          | 9OH-TAN*   | 9-hydroxy-12-oxo-10(E)-dodecenoic acid |
| 223           | 195           | 7.3          | OTD*       | 13-oxo-9(Z),11(E)-tridecadienoic acid |
| 137           | 92.9          | 2.45         | SA         | Salicylic acid |
| 226.9         | 182.7         | 5.36         | TA         | Traumatic acid |
| 210.9         | 182.7         | 6.56         | TAN        | Traumatinin |

<sup>a</sup> Select m/z ions for compound identification (see Methods section)

<sup>b</sup> Compound retention time

<sup>c</sup>