

**Identificaton of the Alarm and Sex Pheromones of the Leaf-Footed Bug,
Leptoglossus zonatus (Heteroptera: Coreidae)**

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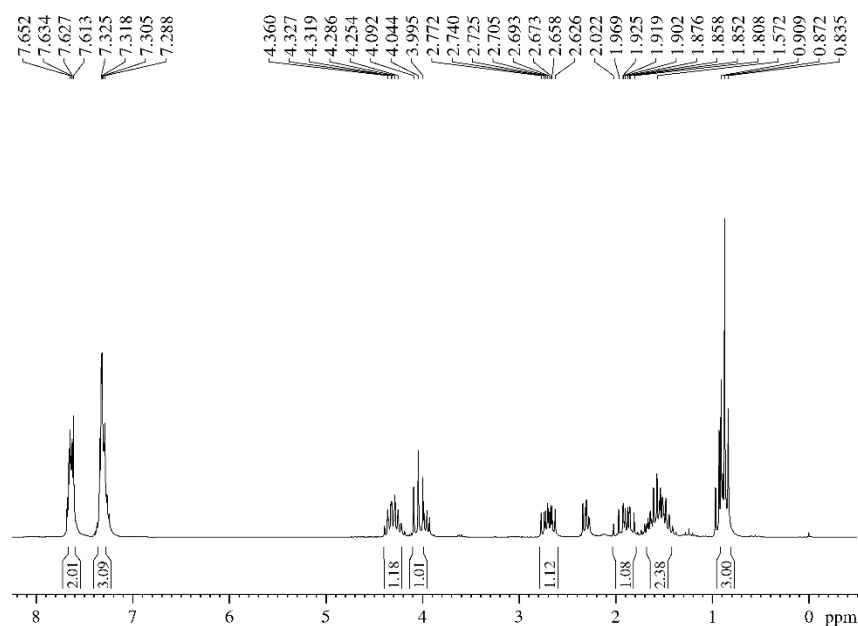


Figure S1. ¹H NMR spectrum (200 MHz, CDCl₃) of the mixture of diastereoisomers of the 5-ethyl-3-(phenylselanyl)dihydrofuran-2(3*H*)-one (**II**).

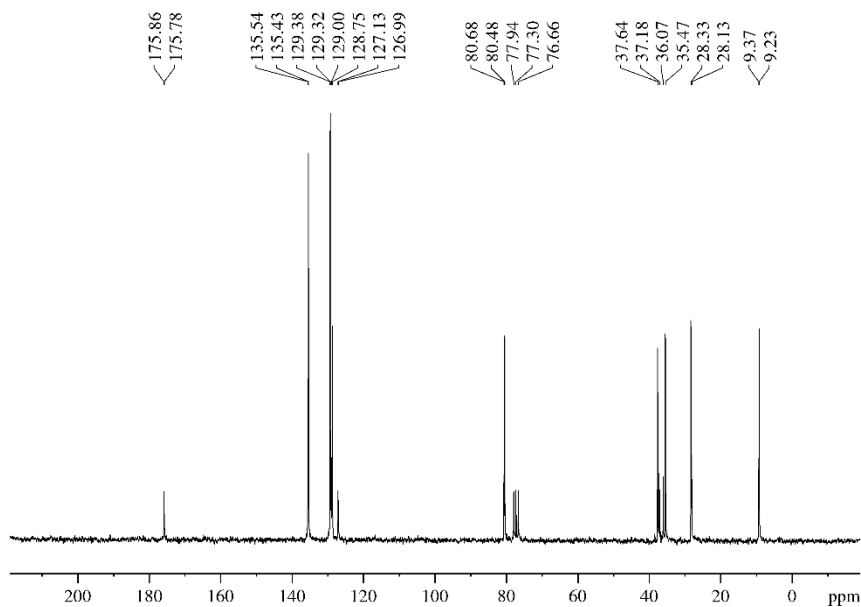


Figure S2. ^{13}C NMR spectrum (50 MHz, CDCl_3) of the mixture of diastereoisomers of the 5-ethyl-3-(phenylselanyl)dihydrofuran-2(3*H*)-one (**II**).

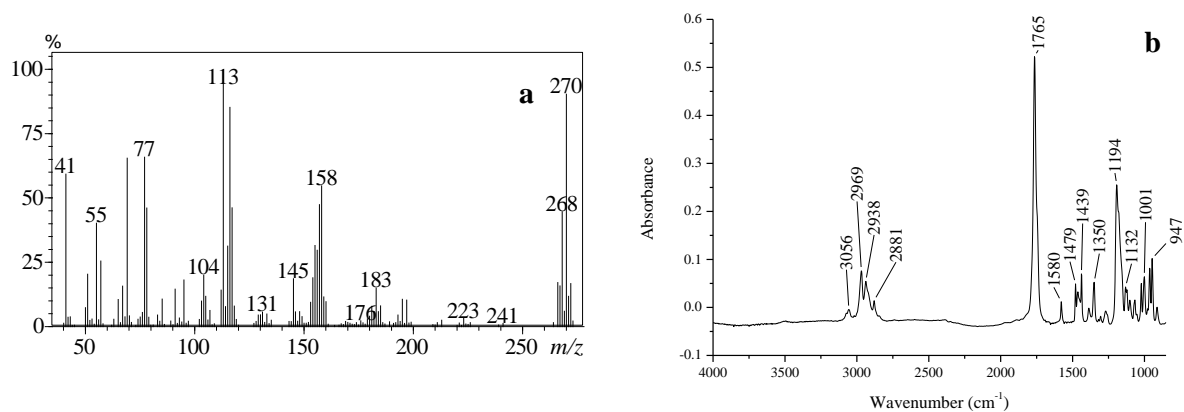


Figure S3. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound 5-ethyl-3-(phenylselanyl)dihydrofuran-2(3*H*)-one (**II**).

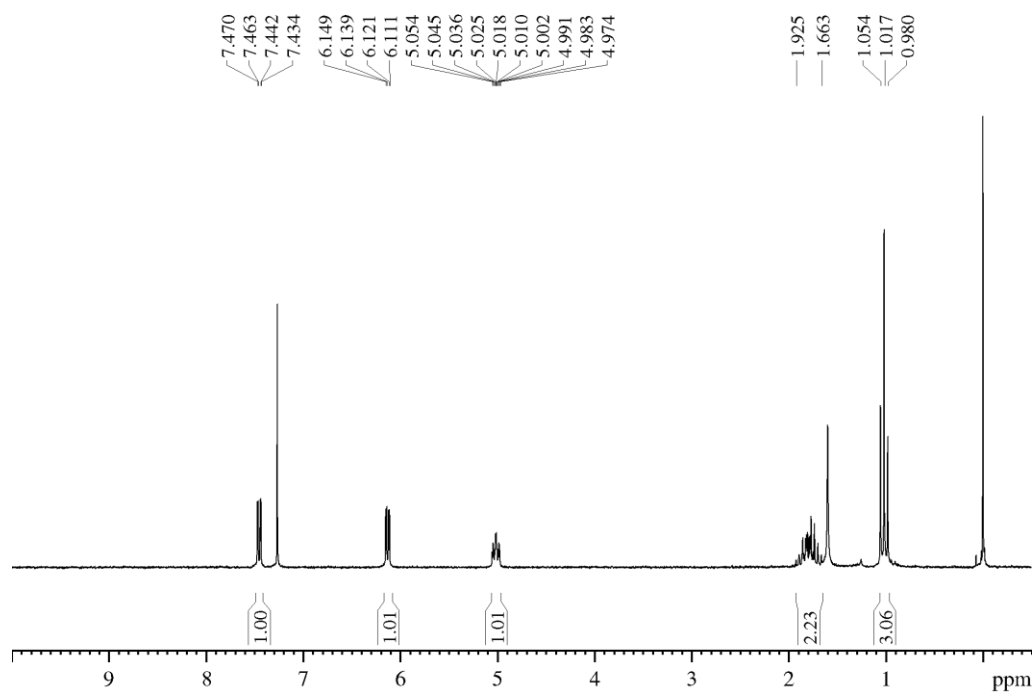


Figure S4. ^1H NMR spectrum (200 MHz, CDCl_3) of compound 5-ethyl-2(5*H*)-furanone (**5**).

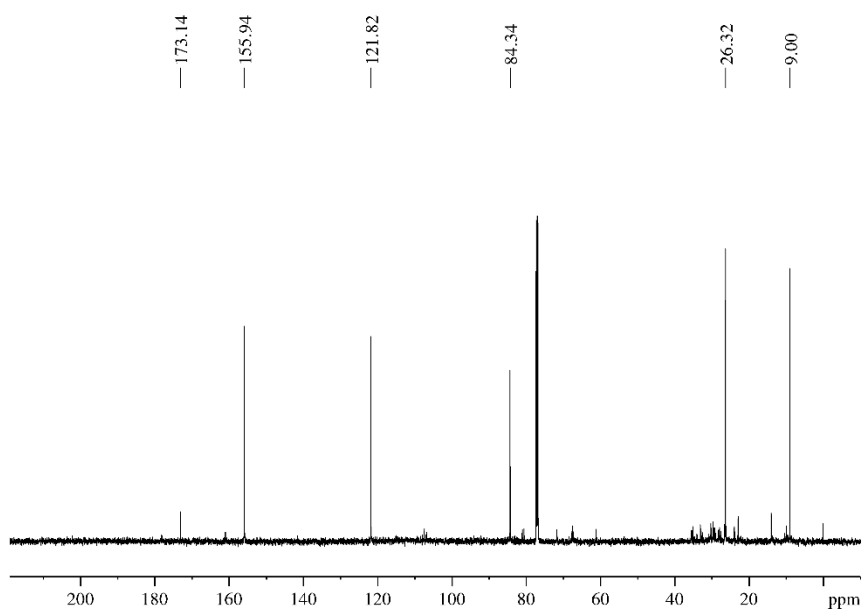


Figure S5. ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound 5-ethyl-2(5*H*)-furanone (**5**).

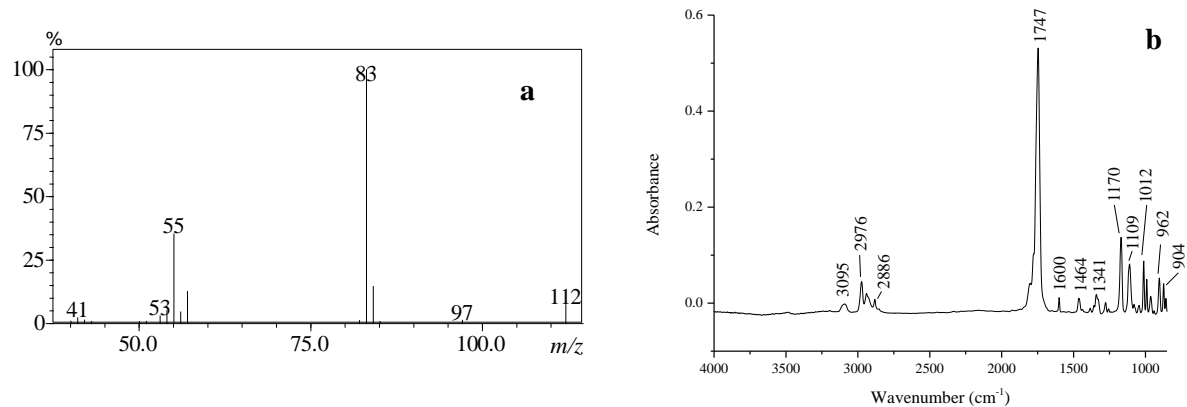


Figure S6. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of the synthetic 5-ethyl-2(5*H*)-furanone (5).

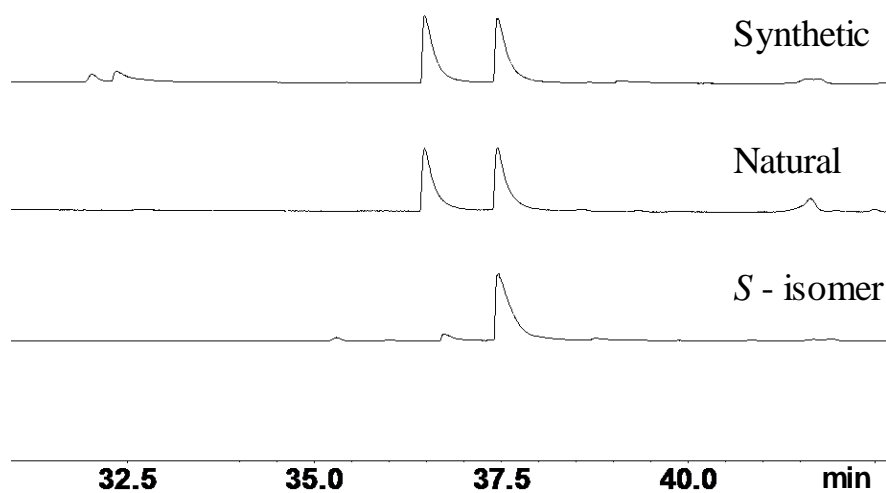


Figure S7. Comparison between the chromatogram of the racemic 5-ethyl-2(5*H*)-furanone, the natural extract, and the (*S*)-5-ethyl-2(5*H*)-furanone.

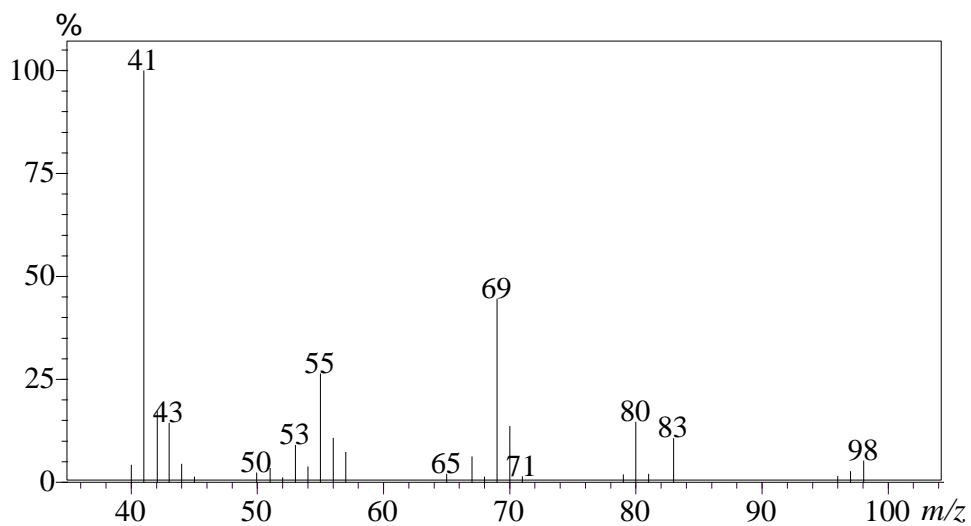


Figure S8. Mass spectrum of compound (*E*)-3-hexenal (1).

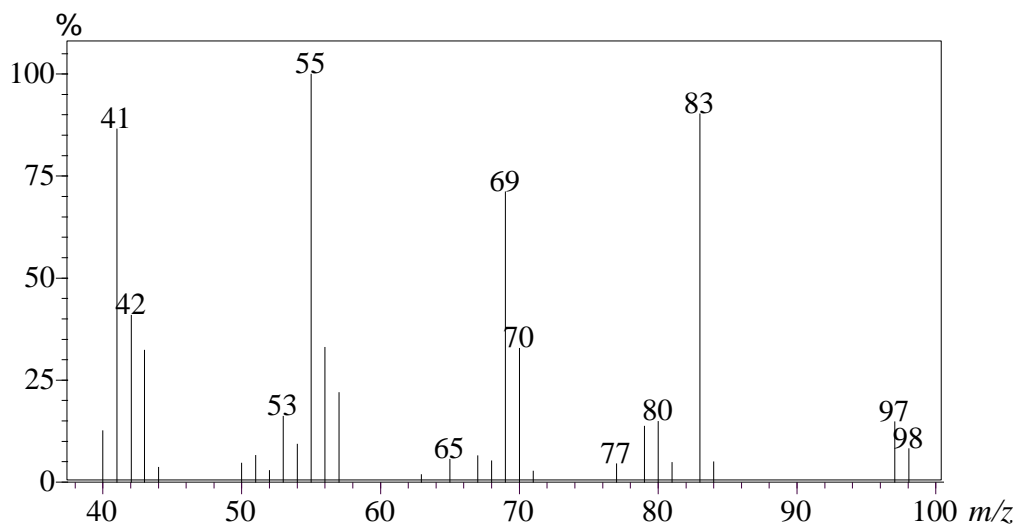


Figure S9. Mass spectrum of compound (*Z*)-2-hexenal (2).

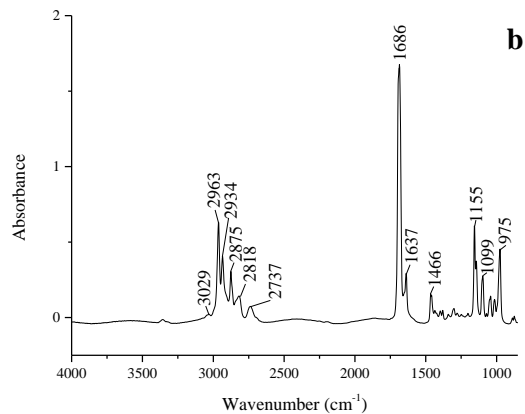
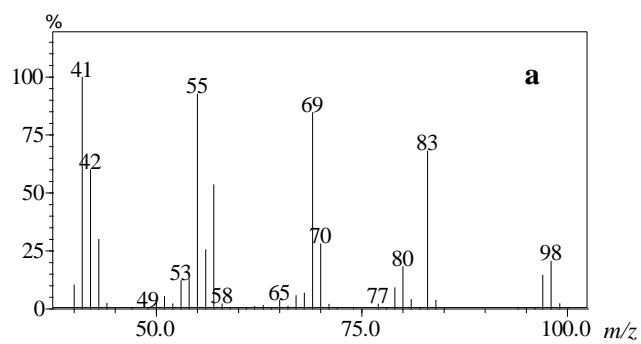


Figure S10. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound (*E*)-2-hexenal (**3**).

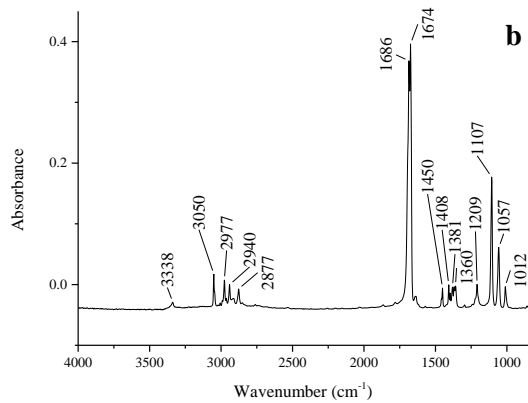
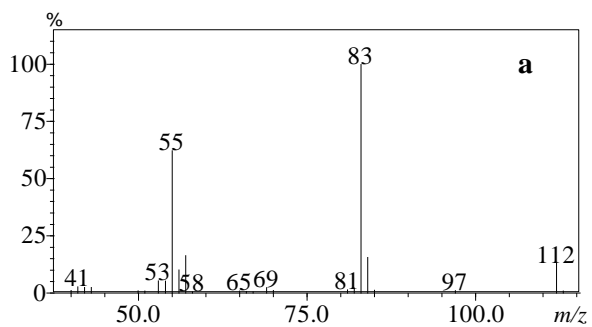


Figure S11. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound (*E*)-4-oxo-2-hexenal (**4**).

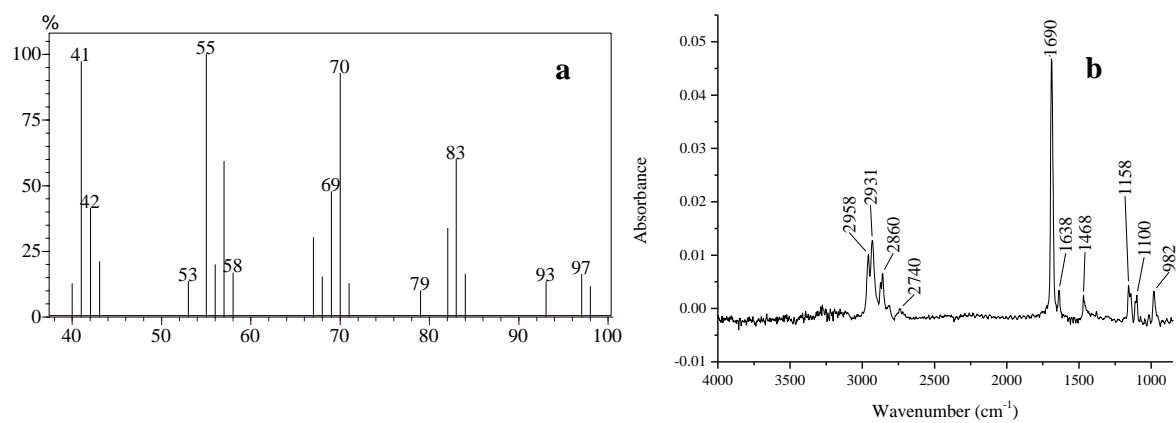


Figure S12. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound (*E*)-2-octenal (**6**).

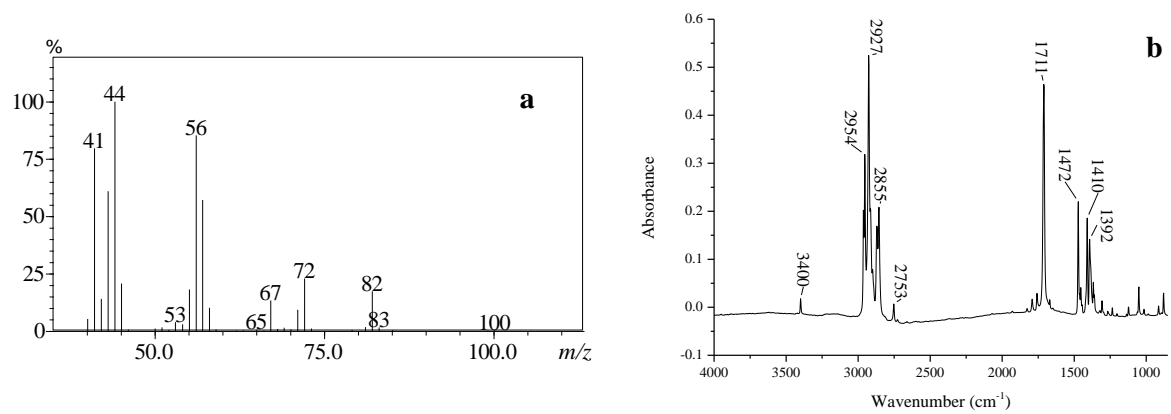


Figure S13. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound hexanal (**7**).

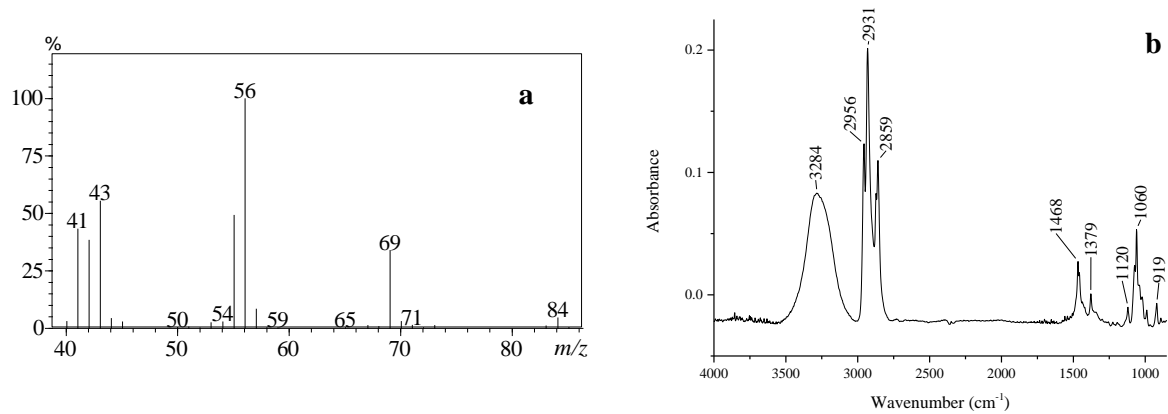


Figure S14. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound 1-hexanol (**8**).

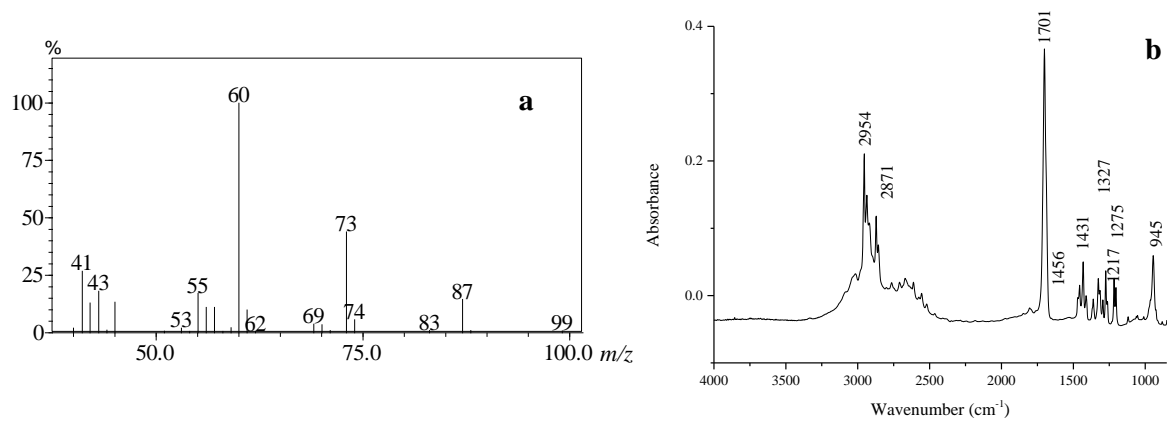


Figure S15. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound hexanoic acid (**9**).

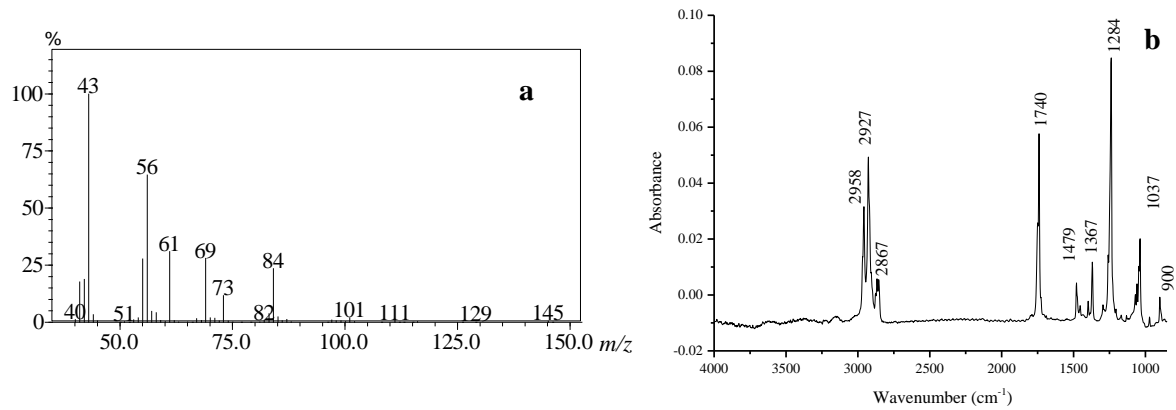


Figure S16. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound hexyl acetate (**10**).

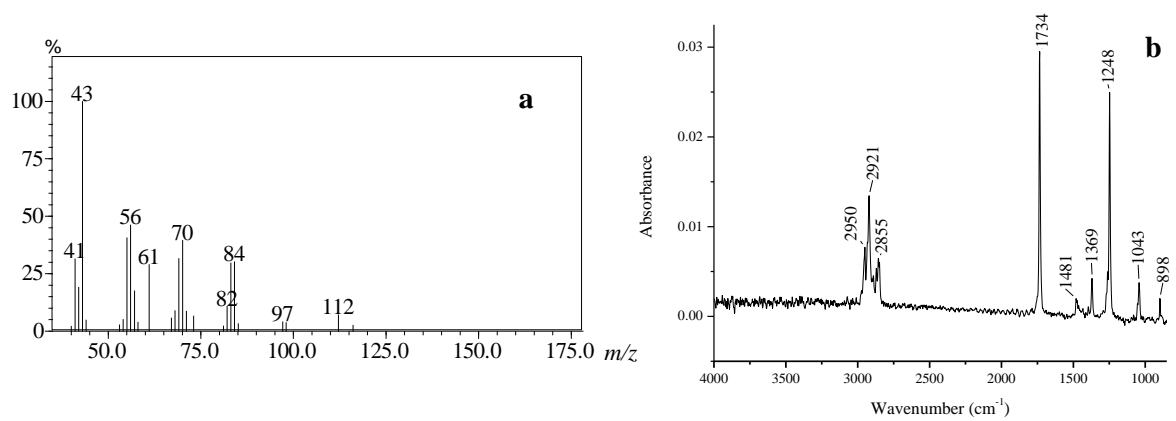


Figure S17. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound octyl acetate (**11**).

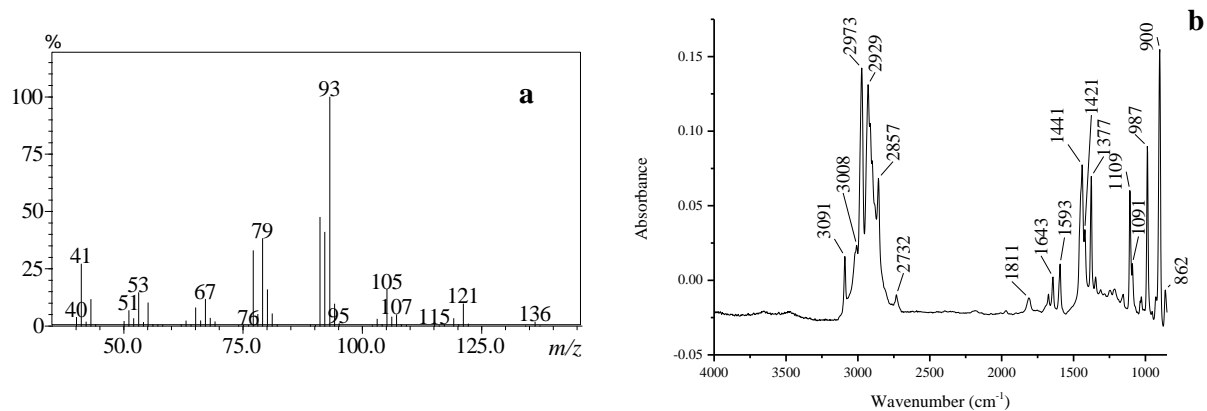


Figure S18. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound (Z)- β -ocimene (**12**).

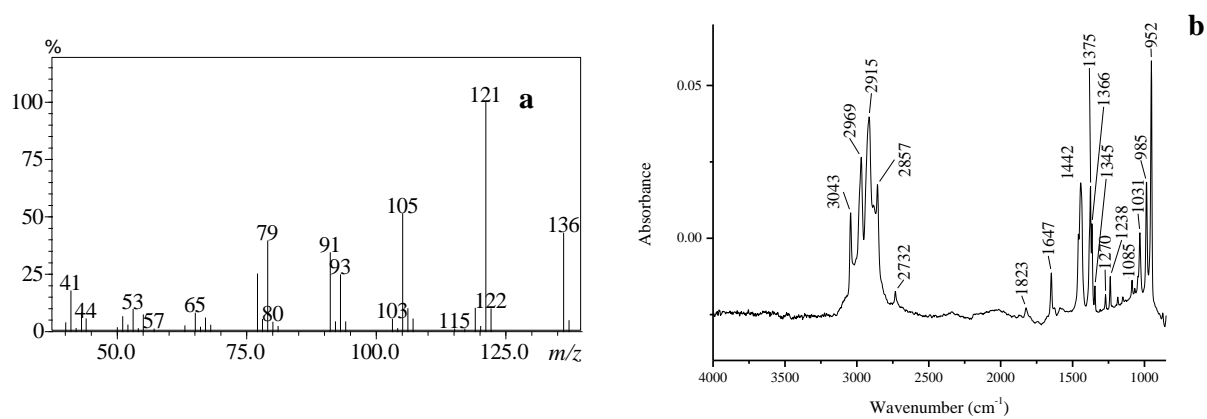


Figure S19. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound 2,6-dimethyl-2,4,6-octatriene (**13**).

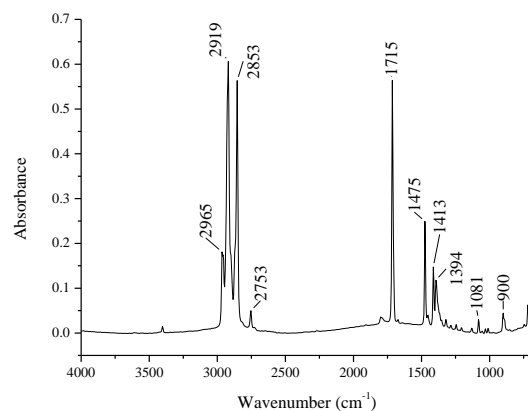
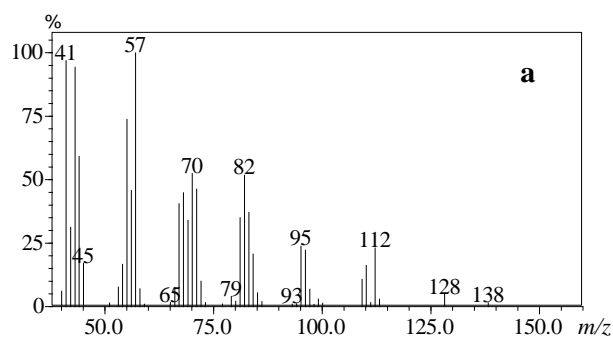


Figure S20. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound decanal (**14**).

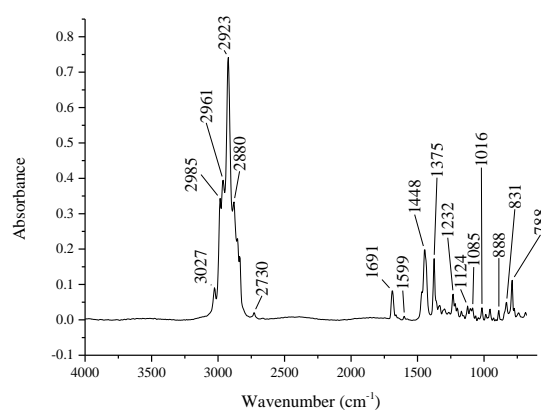
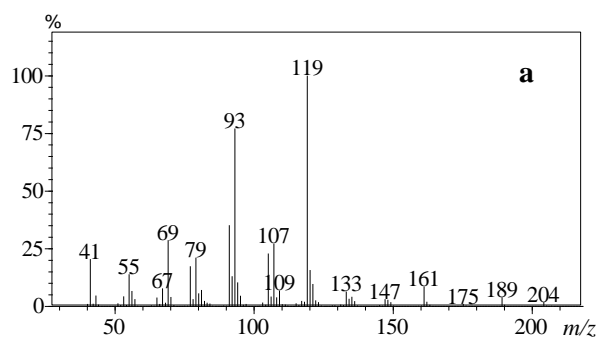


Figure S21. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound α -*trans*-bergamotene (**15**).

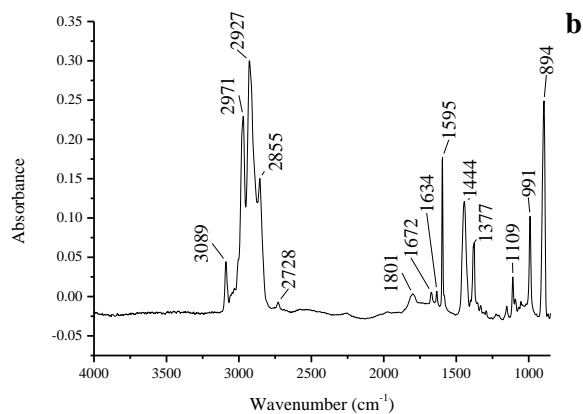
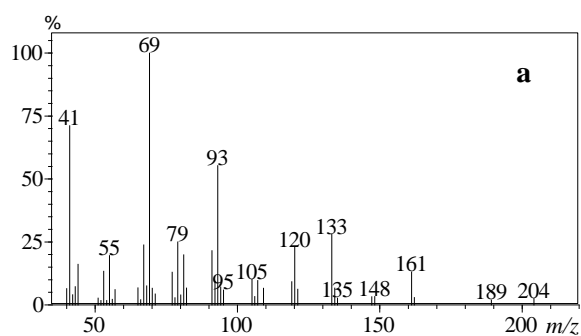


Figure S22. (a) Mass and (b) infrared (ZnSe, GC-FTIR) spectra of compound (*E*)- β -farnesene (**16**).