

Supplemental Information for:

Antimicrobial and Antiinsectan Phenolic Metabolites of *Dalea searlsiae*

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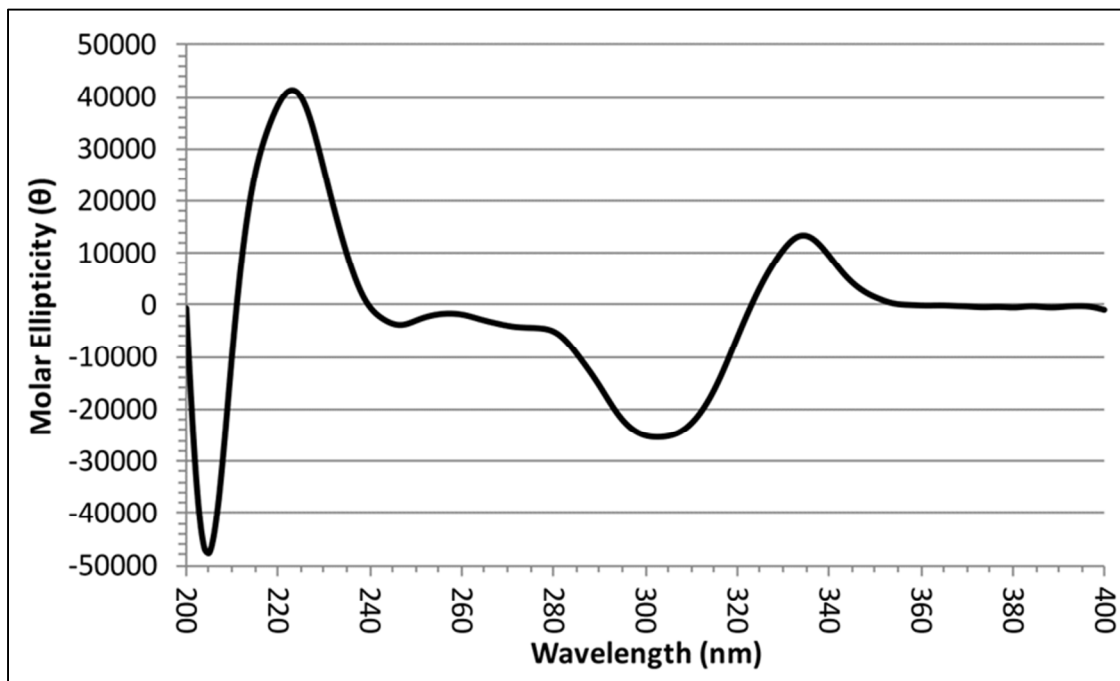


Figure S1. Experimental ECD spectrum of malheuran A (1).

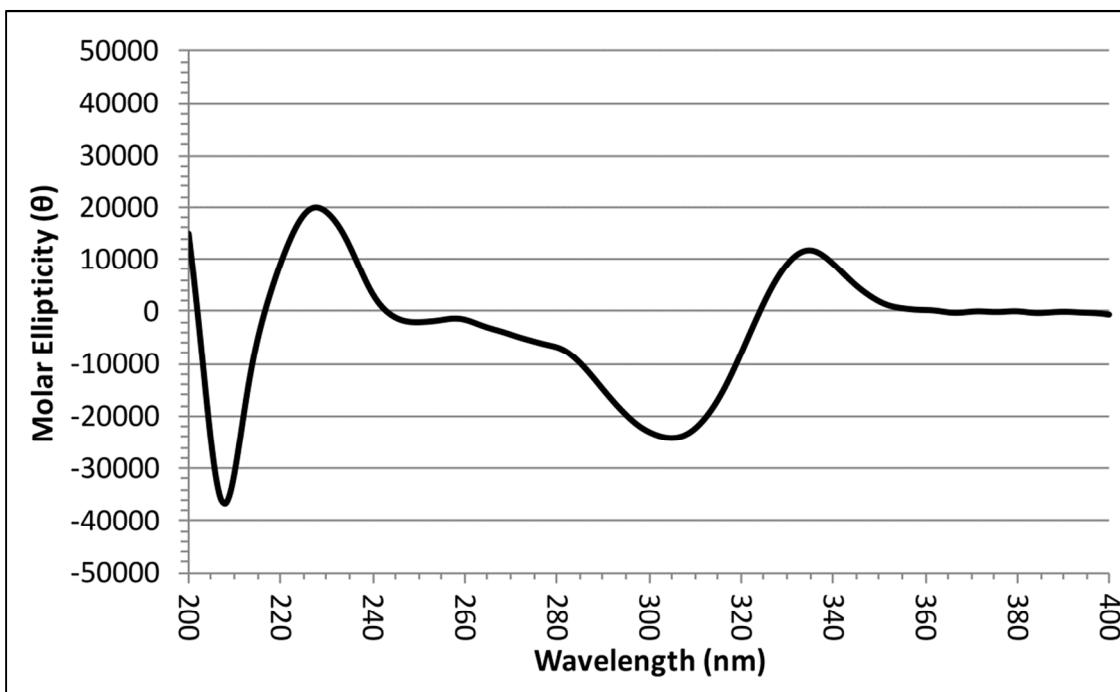


Figure S2. Experimental ECD spectrum of malheuran B (2).

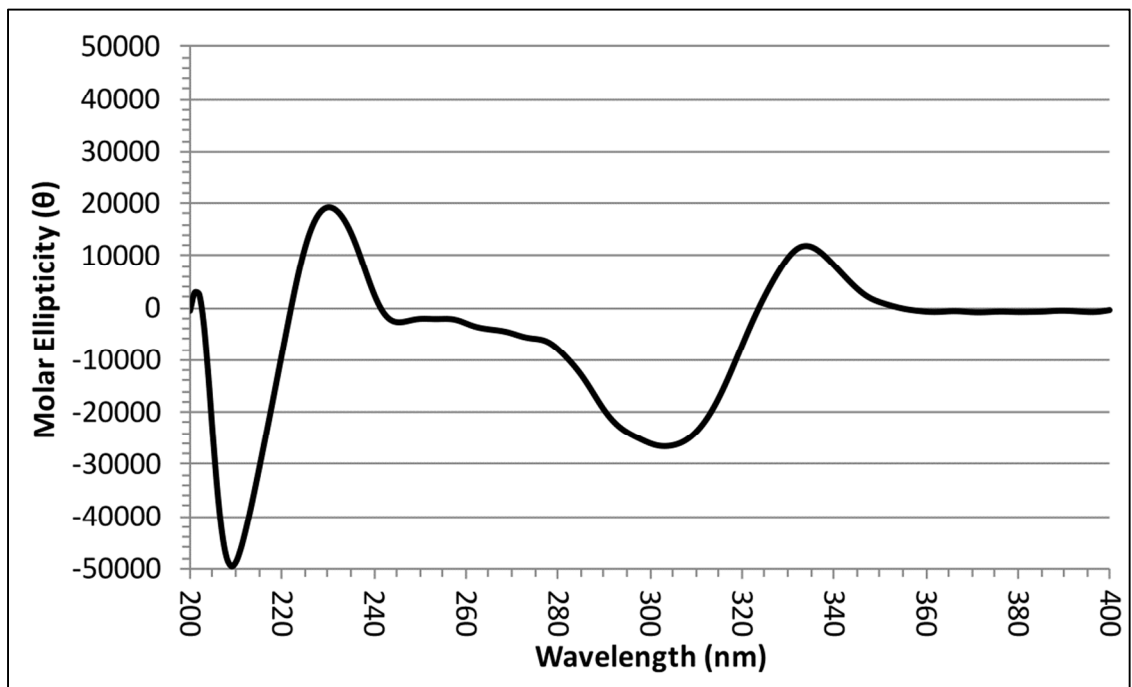


Figure S3. Experimental ECD spectrum of malheuran C (3).

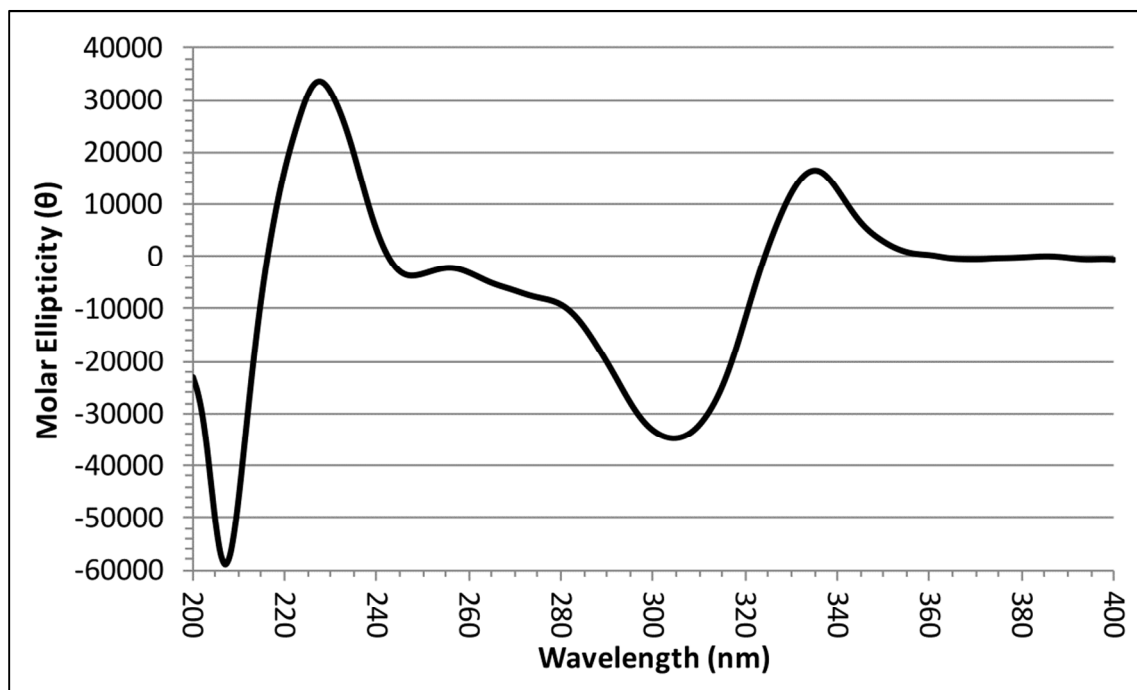


Figure S4. Experimental ECD spectrum of malheuran D (4).

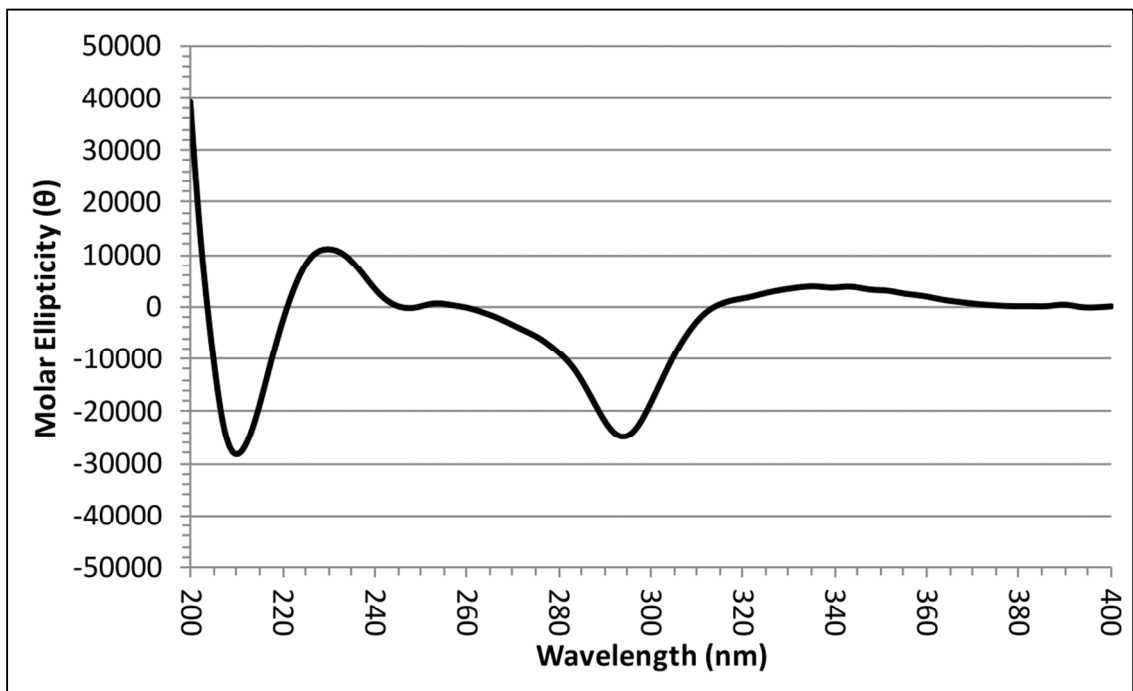


Figure S5. Experimental ECD spectrum of (2*S*)-5'-(2-methylbut-3-en-2-yl)-8-(3-methylbut-2-en-1-yl)-5,7,2',4'-tetrahydroflavanone (**5**).

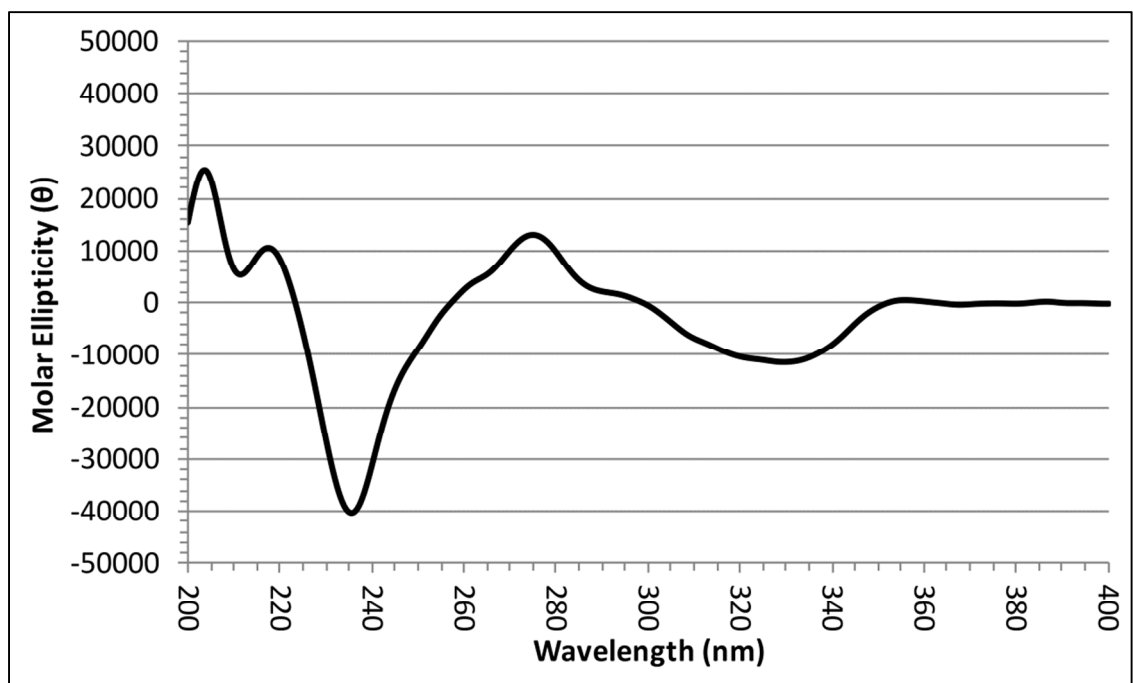


Figure S6. Experimental ECD spectrum of (-)-tephrosin (**7**).

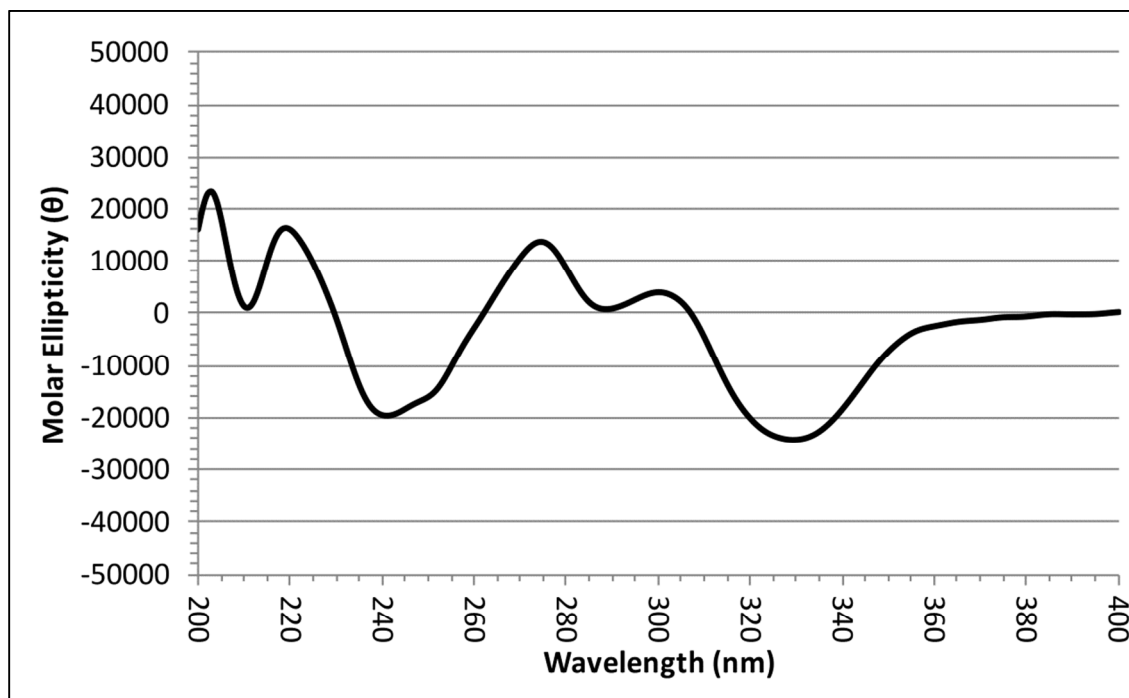


Figure S7. Experimental ECD spectrum of (-)-milletosin A (**8**).

"MA-1-48-F3, 1H, acetone-d6" 1 1 /opt/home/belofskyg Dalea searisiae

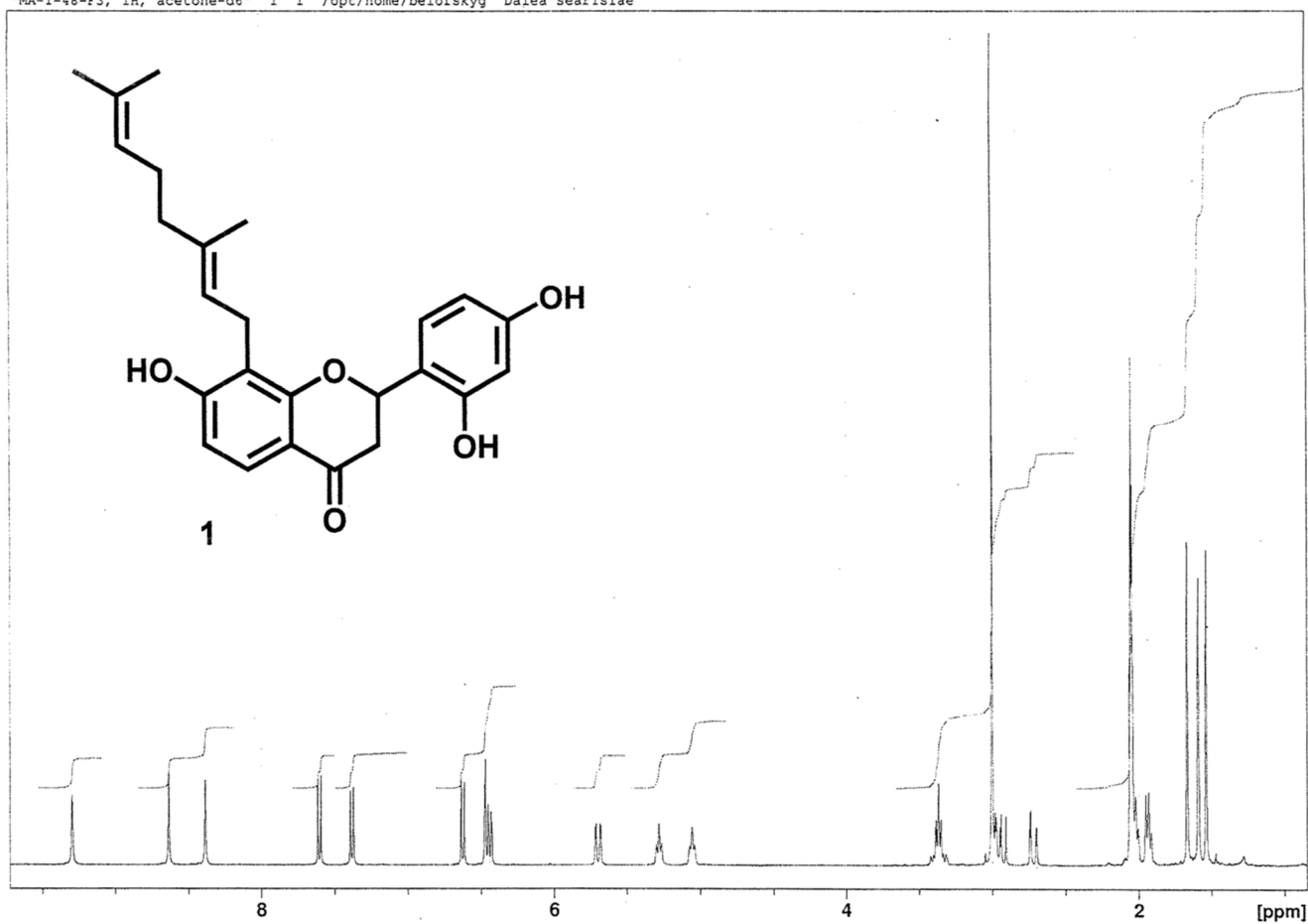


Figure S8. ¹H NMR spectrum of malheuran A (**1**) (400 MHz; acetone-*d*₆).

"MA-1-48-F3, 13C, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

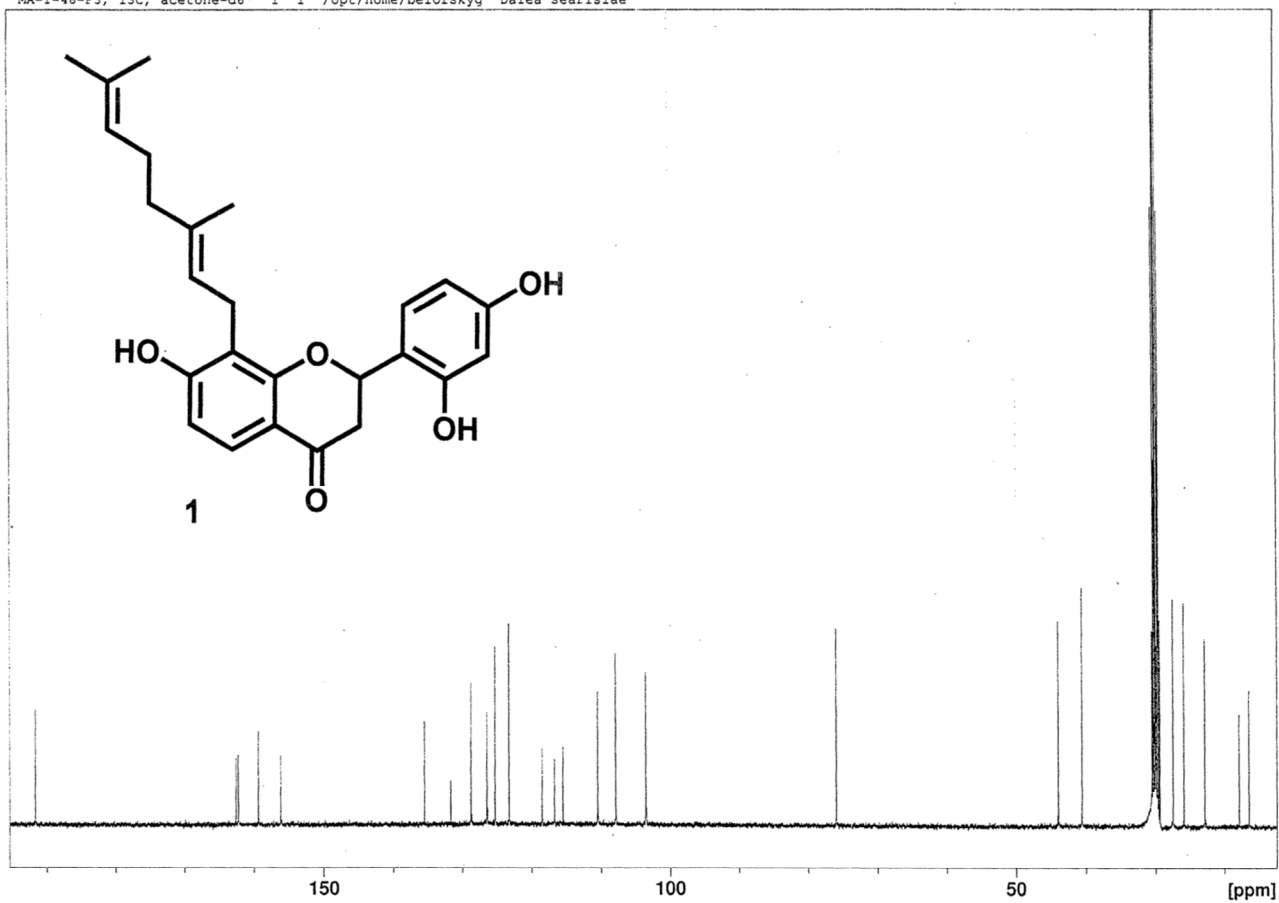


Figure S9. ¹³C NMR spectrum of malheuran A (1) (100 MHz; acetone-*d*₆).

"MA-1-48-F3, acetone-d6" 3 1 /opt/home/belofskyg Dalea searlsiae

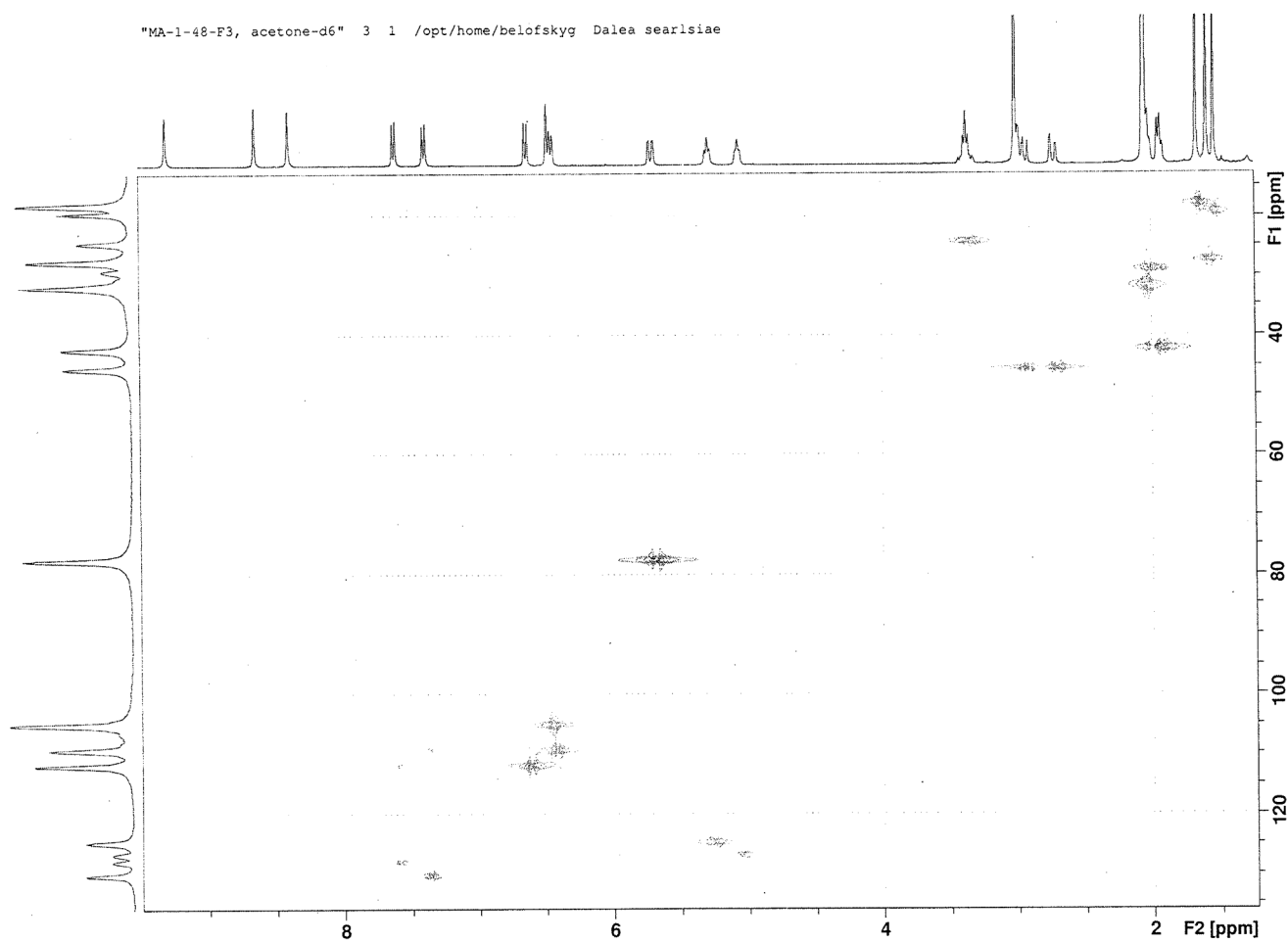


Figure S10. HSQC spectrum of malheuran A (**1**) (400 MHz; acetone- d_6).

"MA-1-48-F3, acetone-d6" 4 1 /opt/home/belofskyg Dalea searlsiae

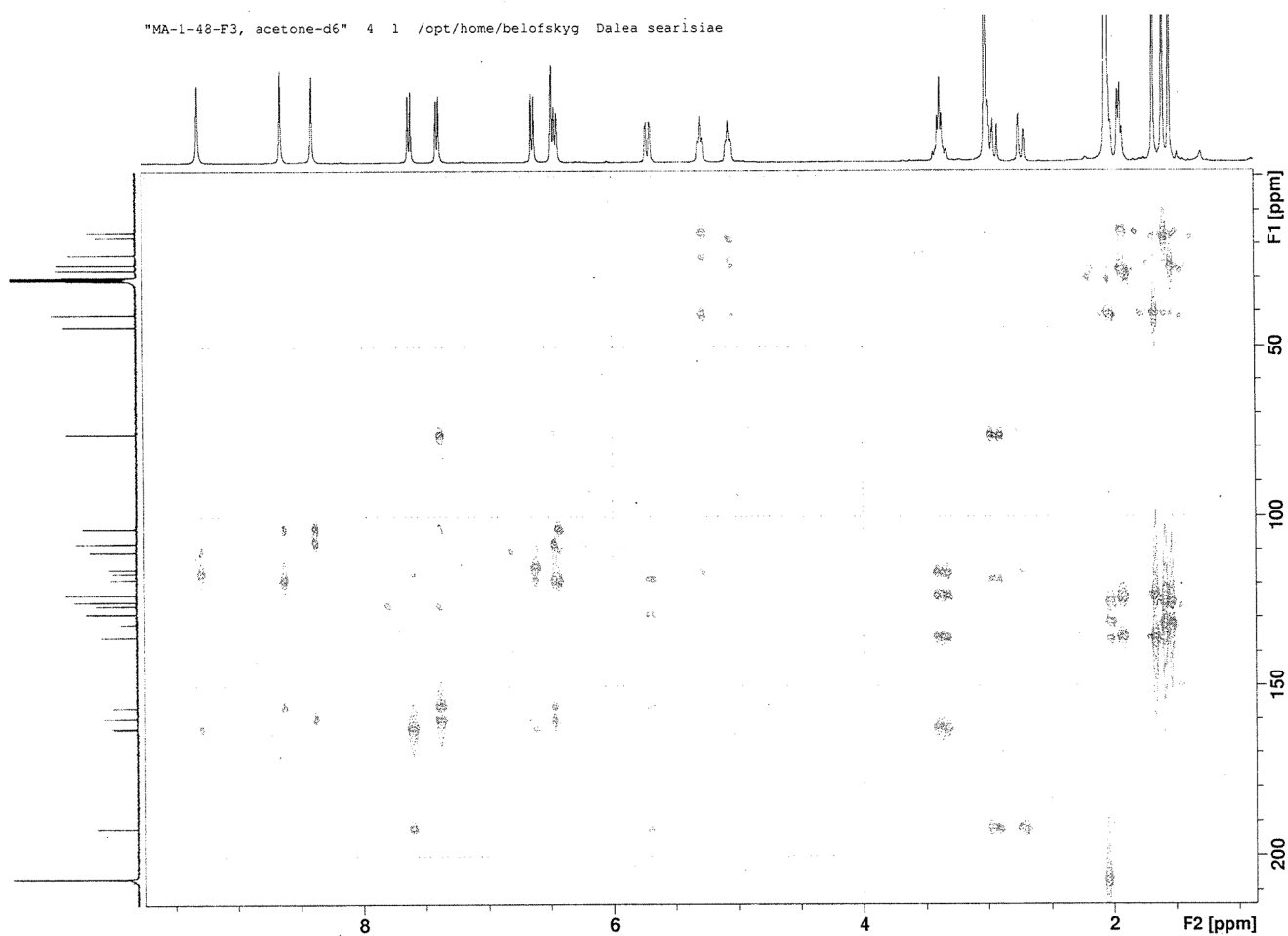


Figure S11. HMBC spectrum of malheuran A (**1**) (400 MHz; acetone- d_6).

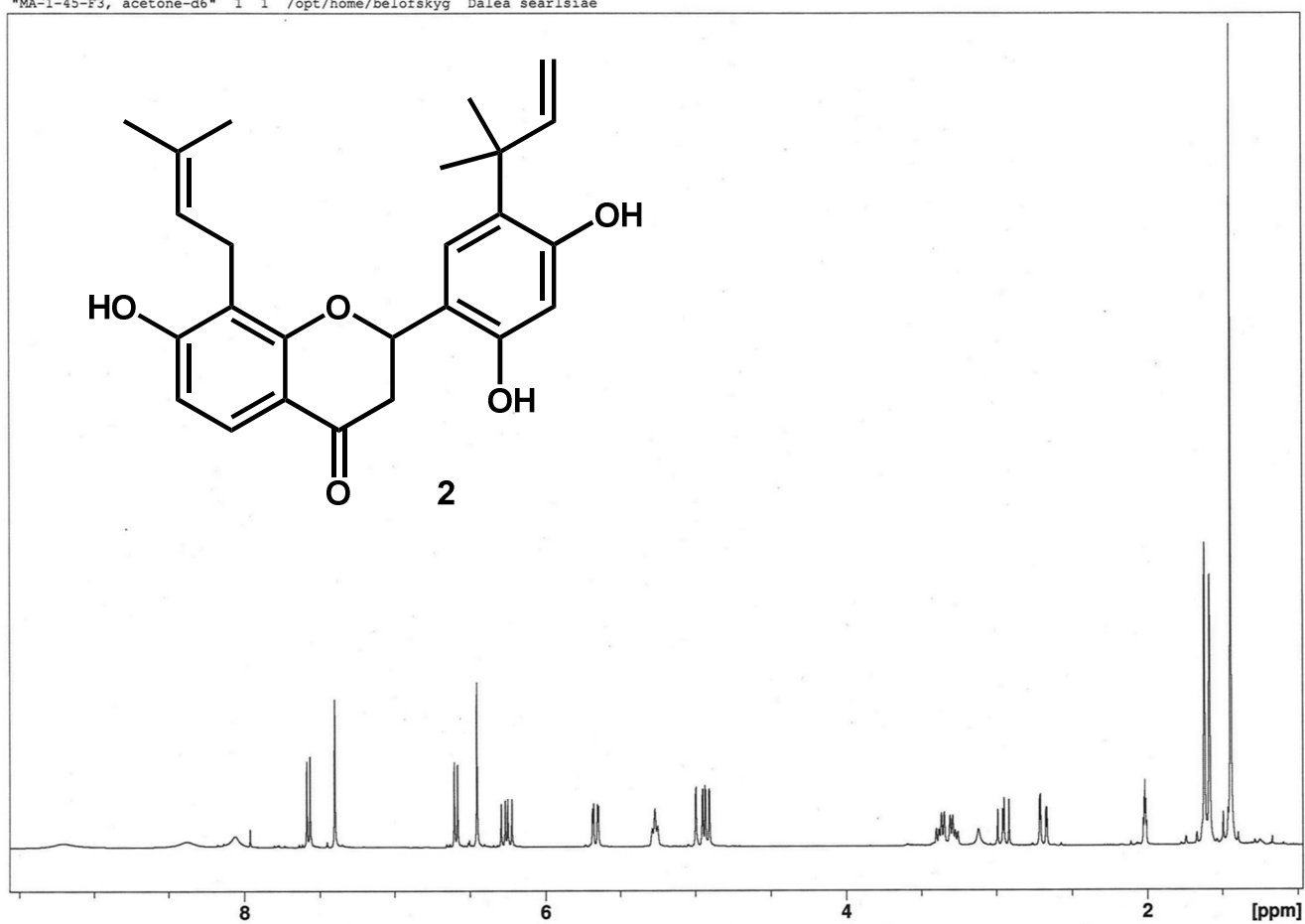


Figure S12. ^1H NMR spectrum of malheuran B (2) (400 MHz; acetone- d_6).

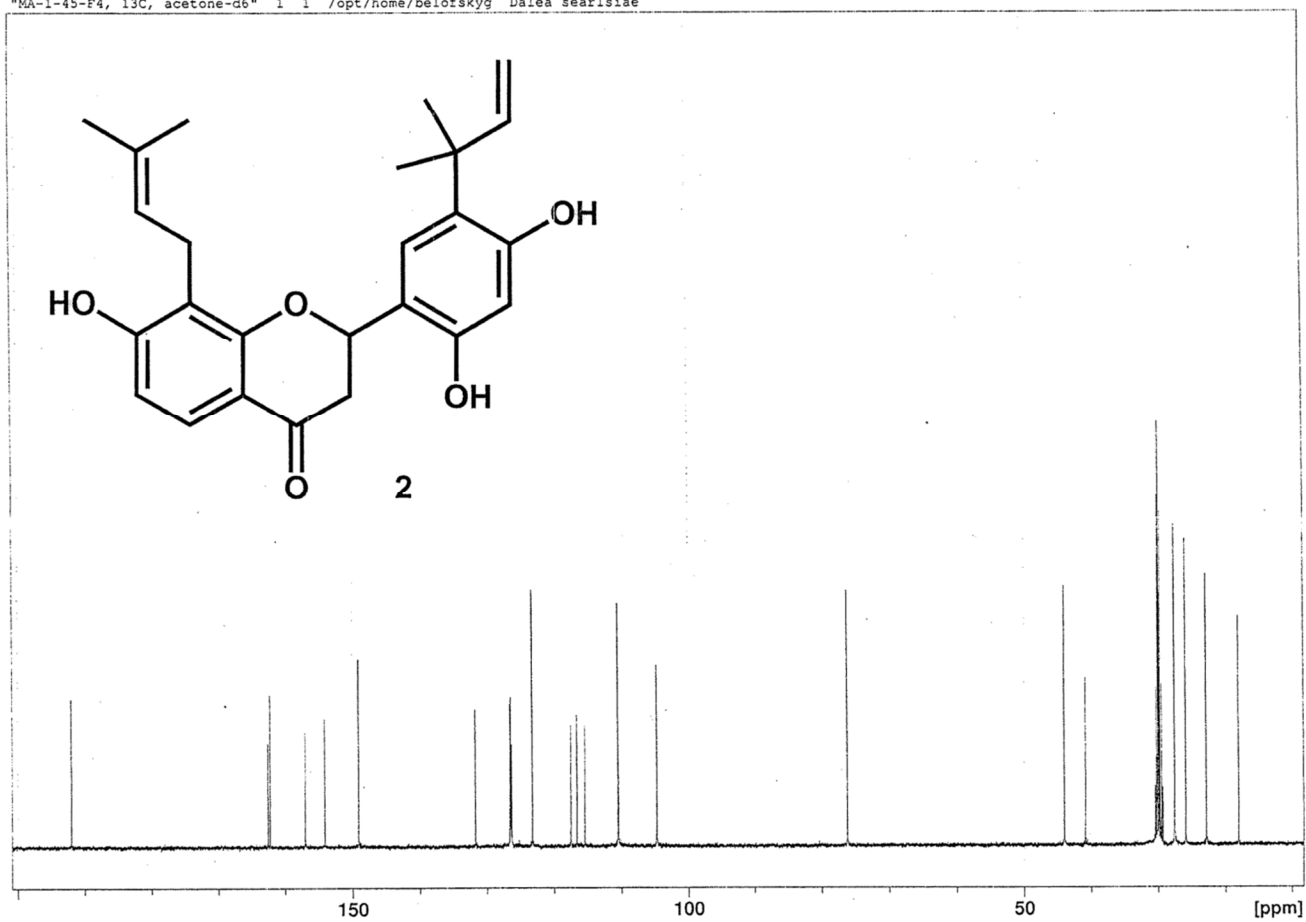


Figure S13. ¹³C NMR spectrum of malheuran B (2) (100 MHz; acetone-*d*₆).

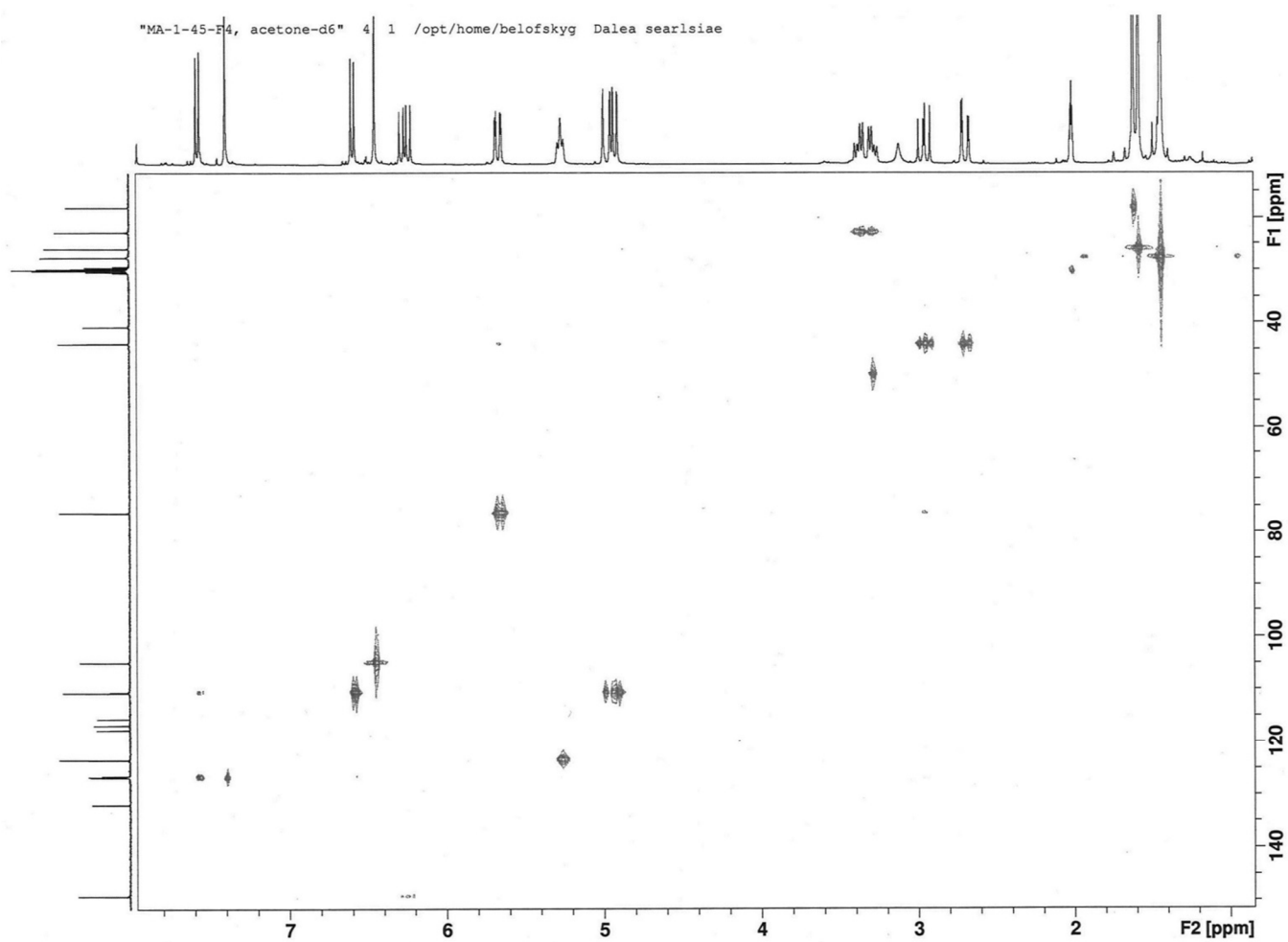


Figure S14. HSQC spectrum of malheuran B (**2**) (400 MHz; acetone- d_6).

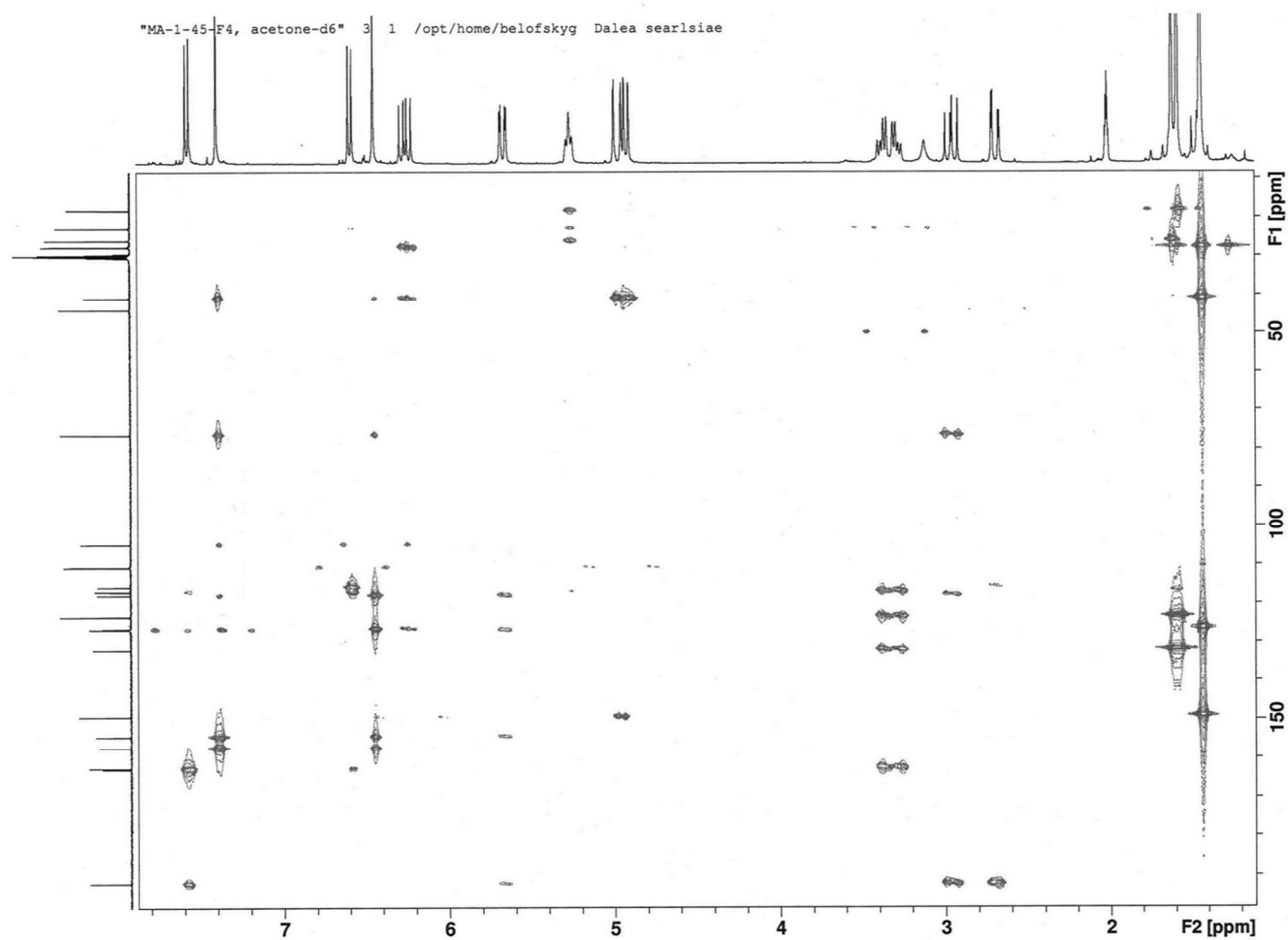


Figure S15. HMBC spectrum of malheuran B (**2**) (400 MHz; acetone- d_6).

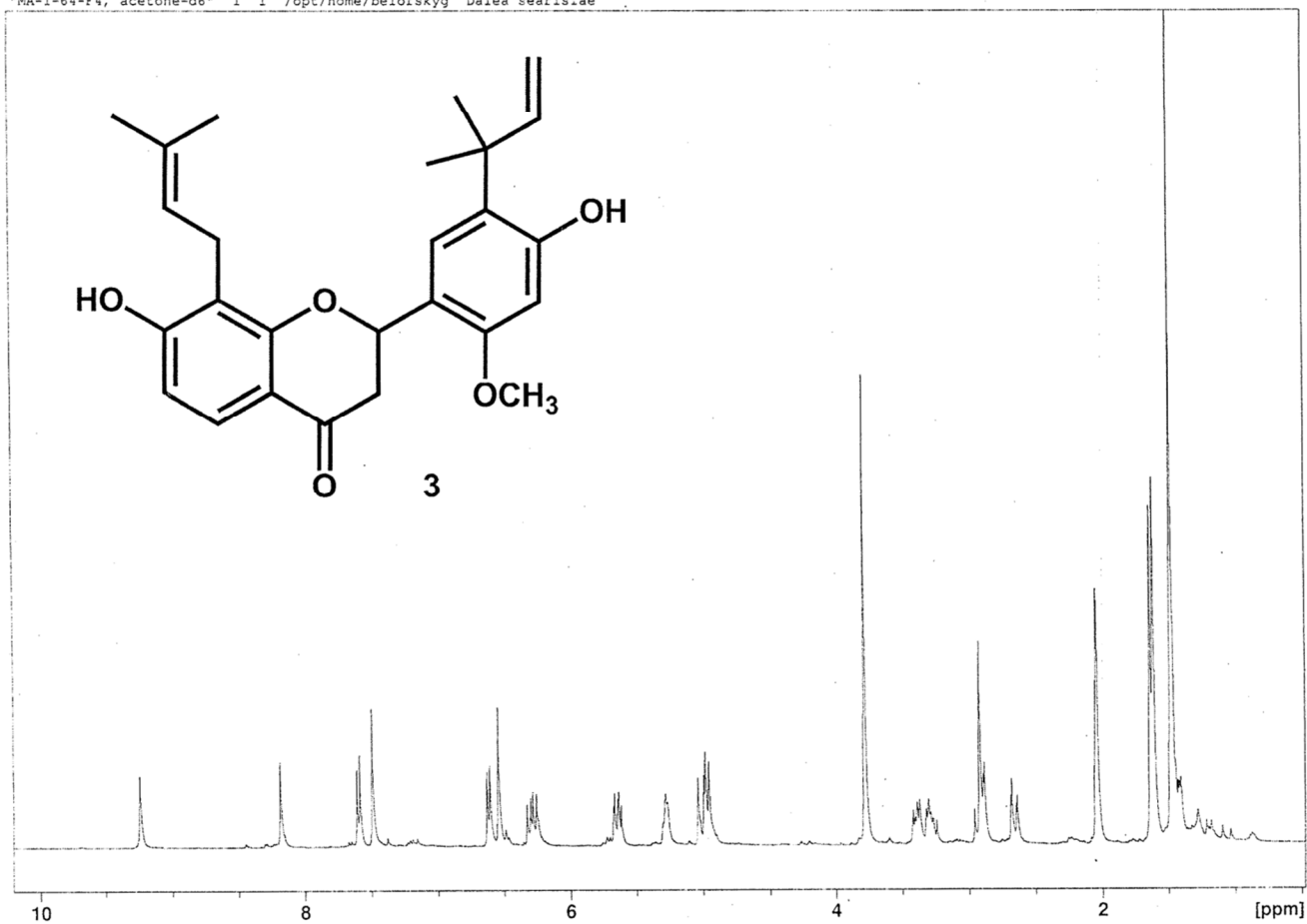


Figure S16. ¹H NMR spectrum of malheuran C (**3**) (400 MHz; acetone-*d*₆).

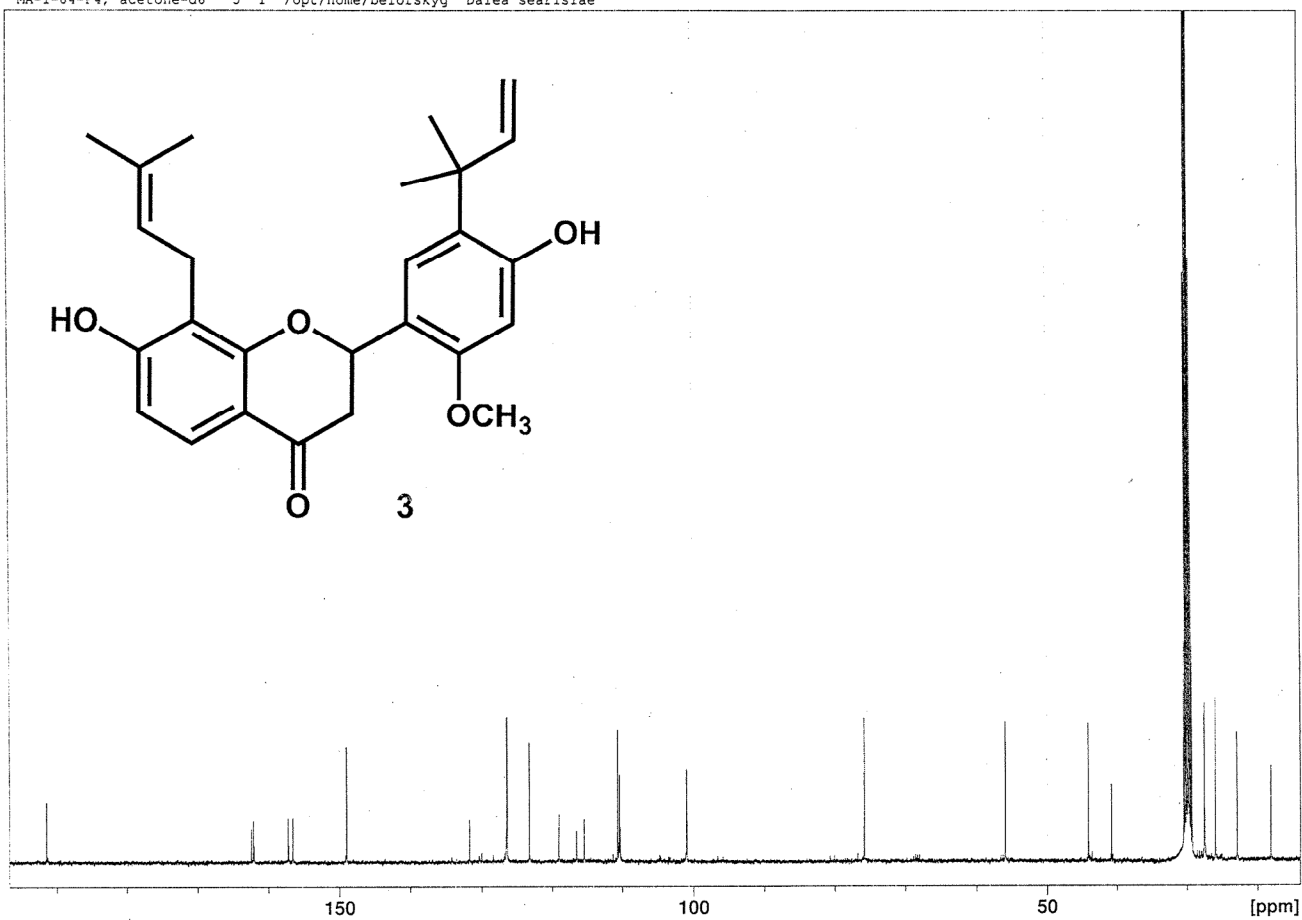


Figure S17. ^{13}C NMR spectrum of malheuran C (**3**) (100 MHz; acetone- d_6).

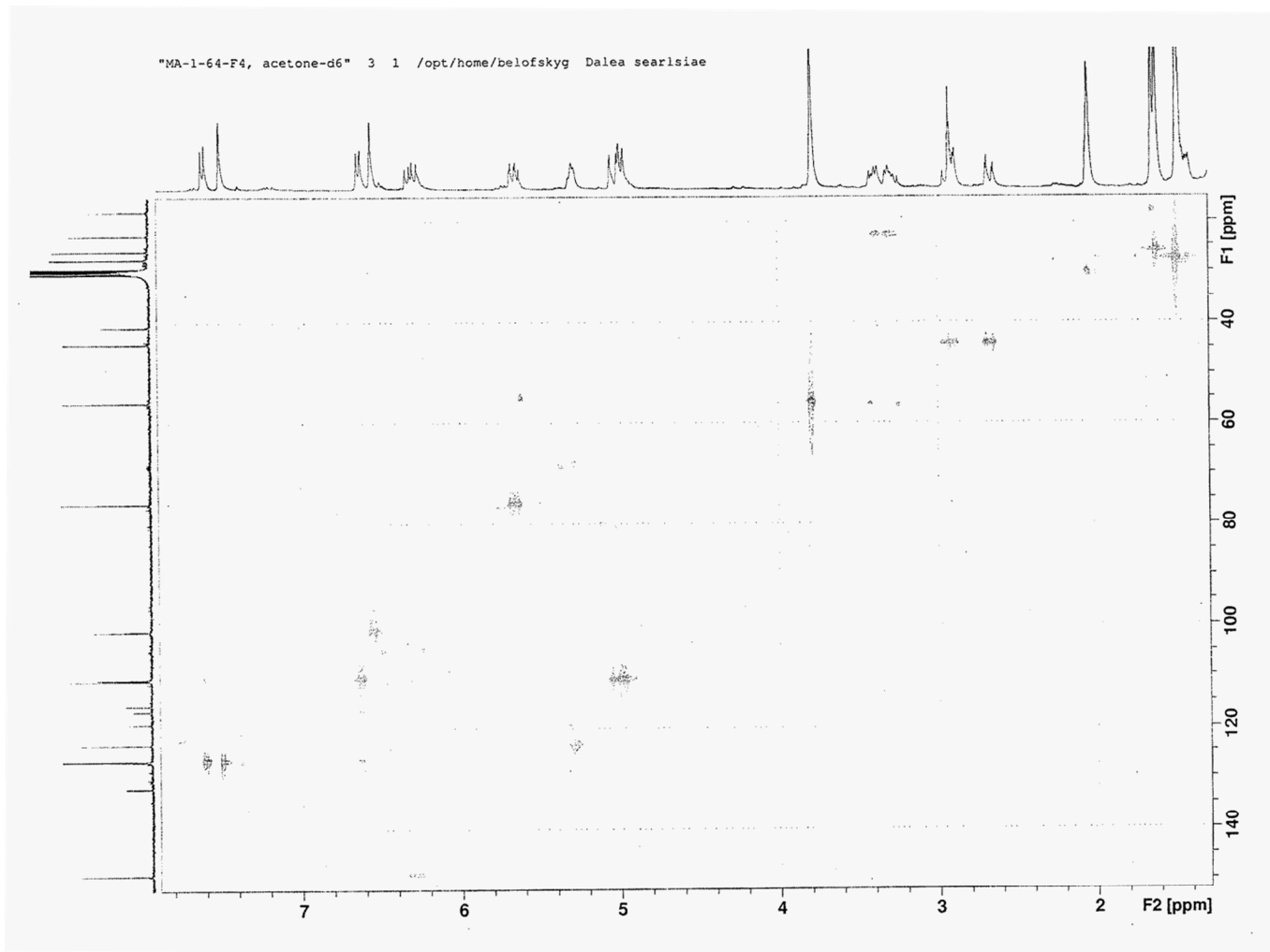


Figure S18. HSQC spectrum of malheuran C (**3**) (400 MHz; acetone- d_6).

"MA-1-64-F4, acetone-d6" 4 1 /opt/home/belofskyg Dalea searlsiae

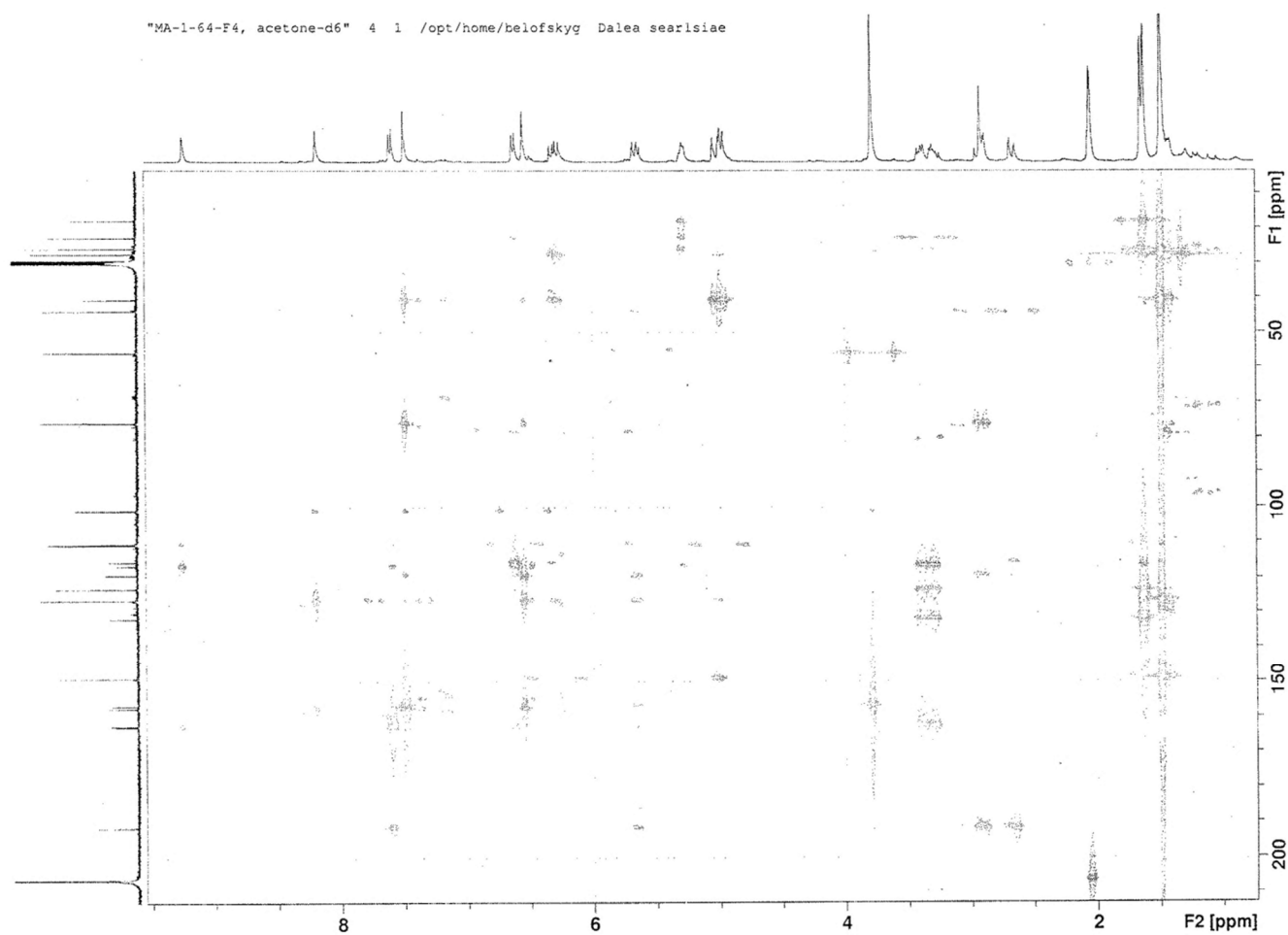


Figure S19. HMBC spectrum of malheuran C (**3**) (400 MHz; acetone- d_6).

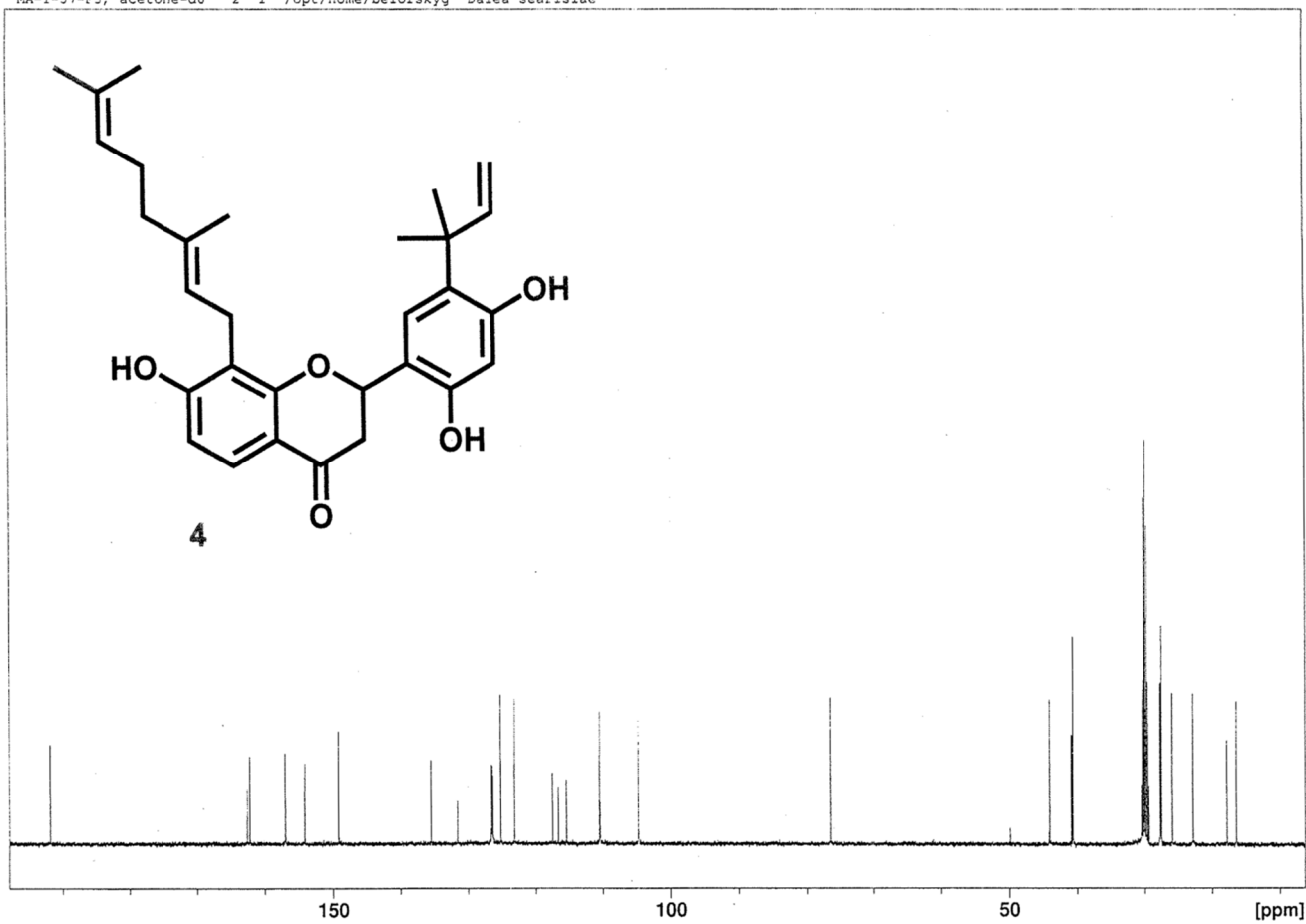


Figure S21. ¹³C NMR spectrum of malheuran D (4) (100 MHz; acetone-*d*₆).

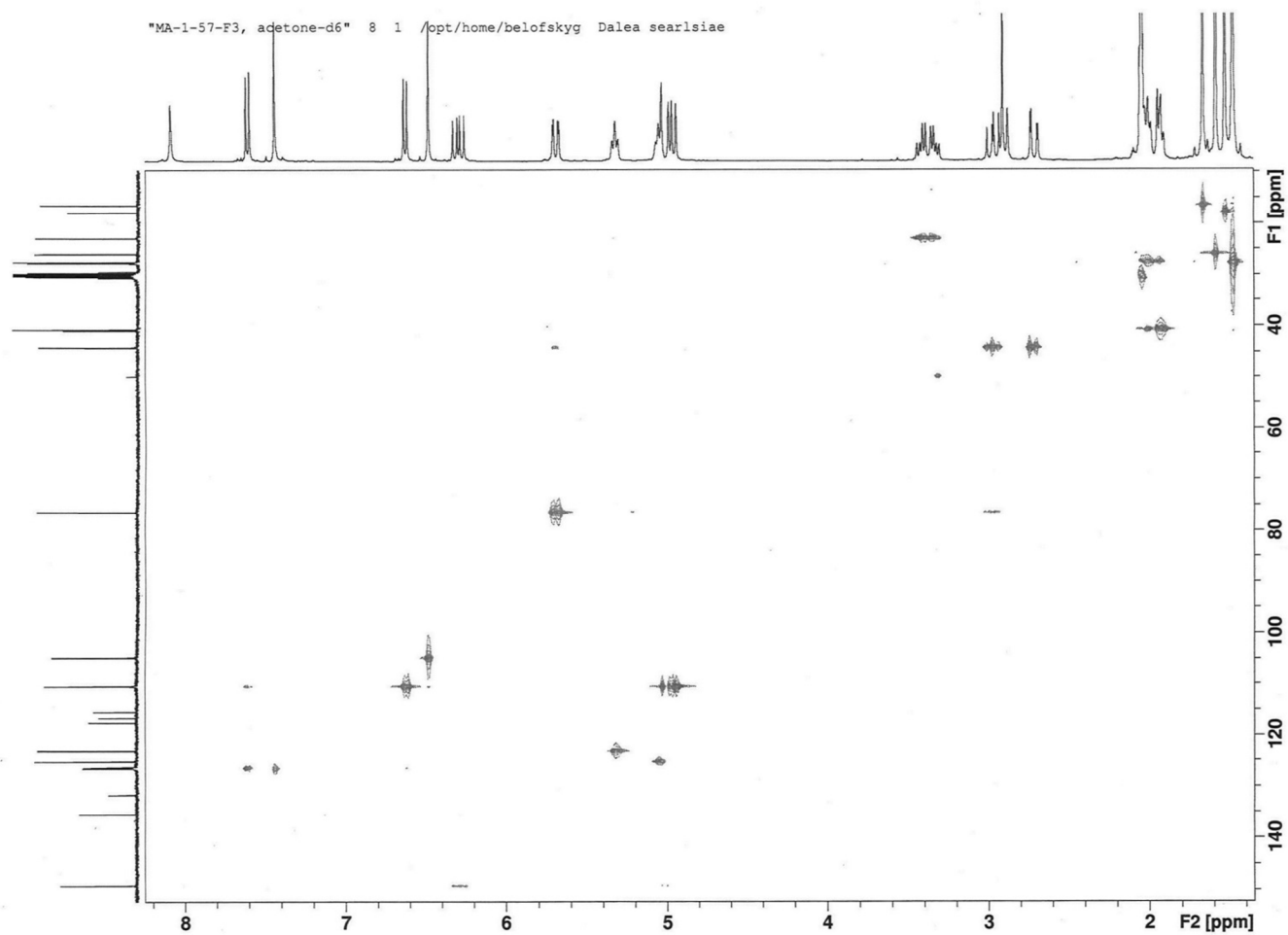


Figure S22. HSQC spectrum of malheuran D (**4**) (400 MHz; acetone- d_6).

"MA-1-57-F3, acetone-d6" 9 1 /opt/home/belofskyg Dalea searlsiae

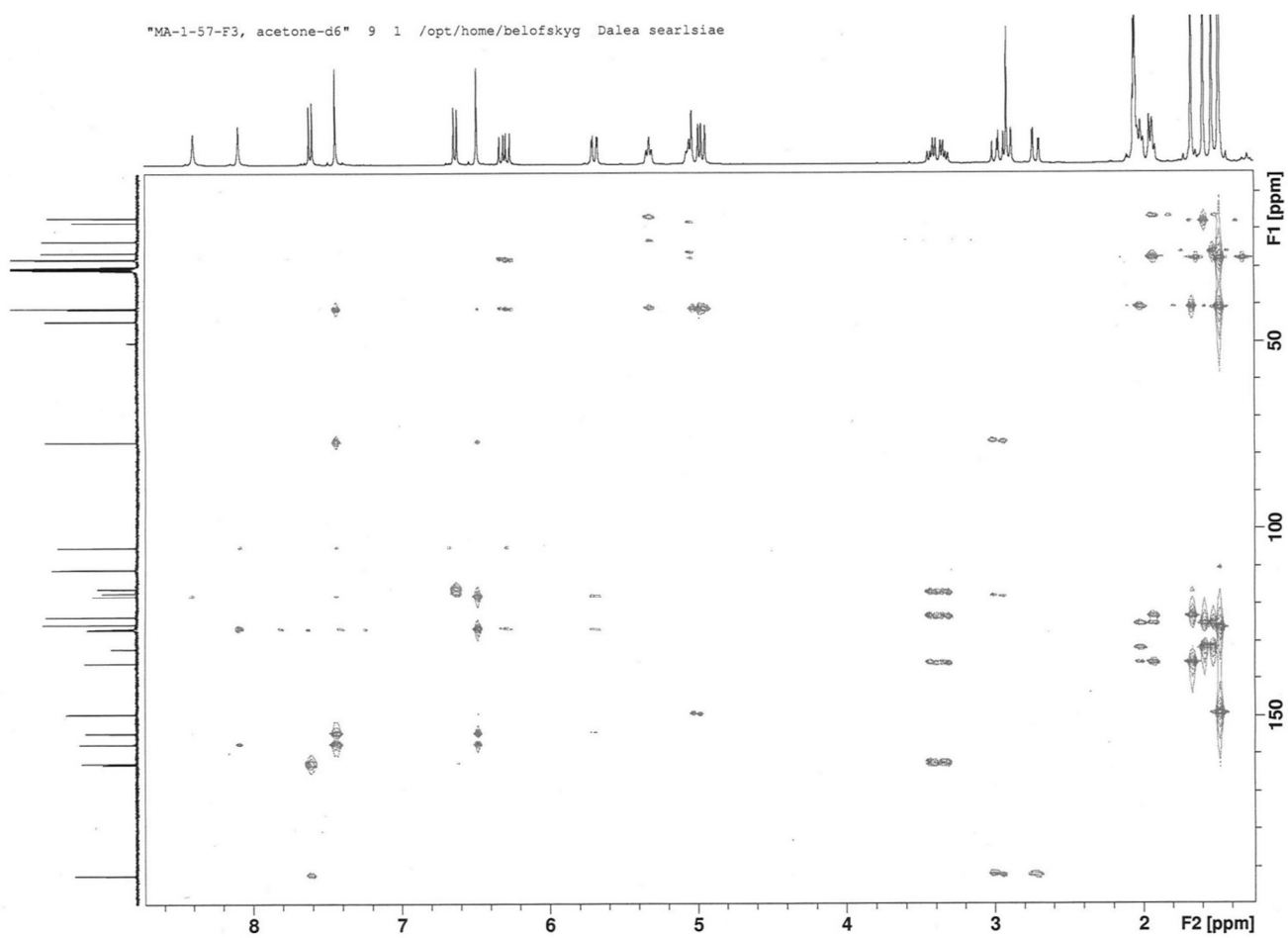


Figure S23. HMBC spectrum of malheuran D (4) (400 MHz; acetone- d_6).

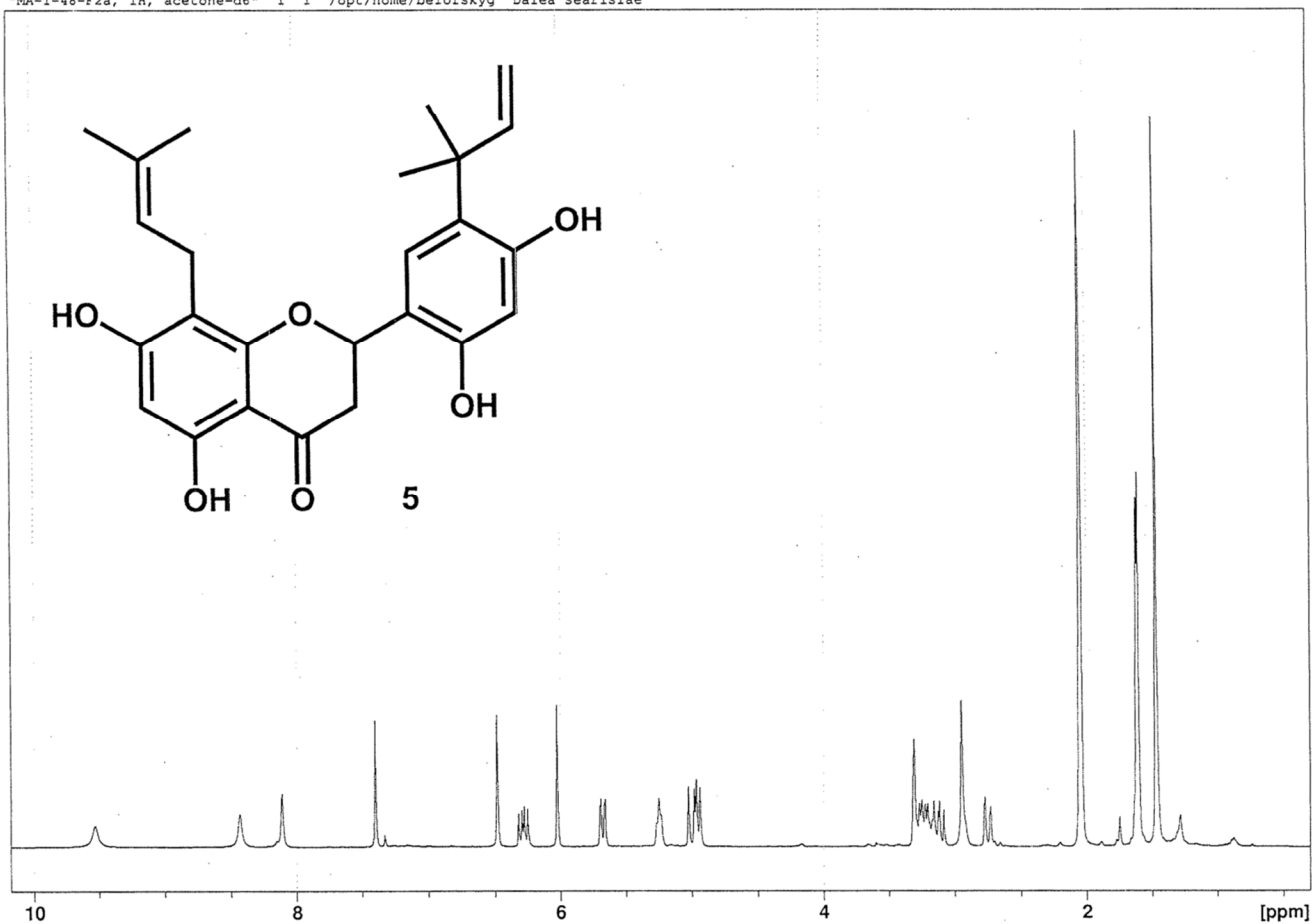


Figure S24. ¹H NMR spectrum of (2*S*)-5'-(2-methylbut-3-en-2-yl)-8-(3-methylbut-2-en-1-yl)-5,7,2',4'-tetrahydroxyflavanone (**5**) (400 MHz; acetone-*d*₆).

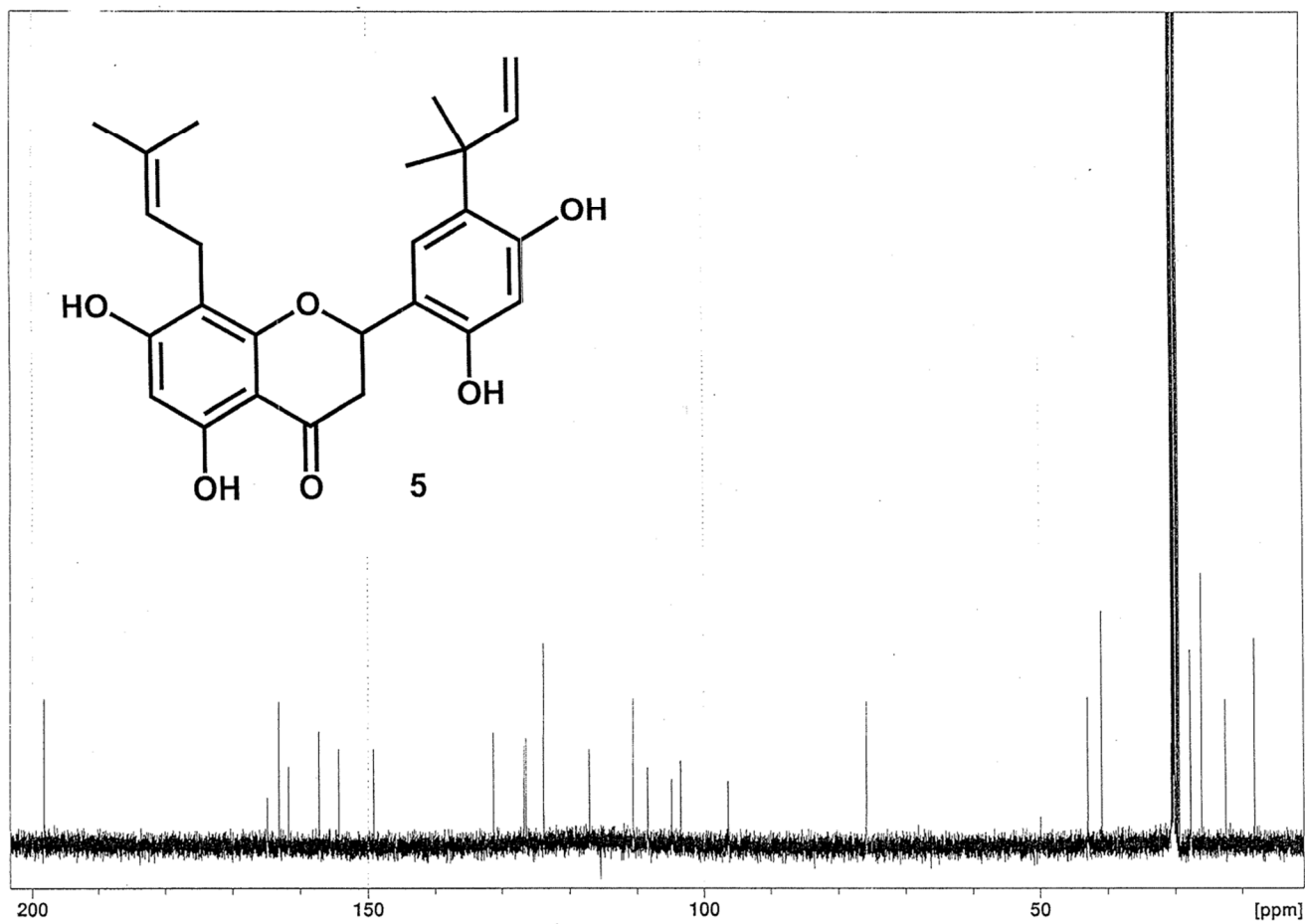


Figure S25. ^{13}C NMR spectrum of (2S)-5'-(2-methylbut-3-en-2-yl)-8-(3-methylbut-2-en-1-yl)-5,7,2',4'-tetrahydroxyflavanone (**5**) (100 MHz; acetone- d_6).

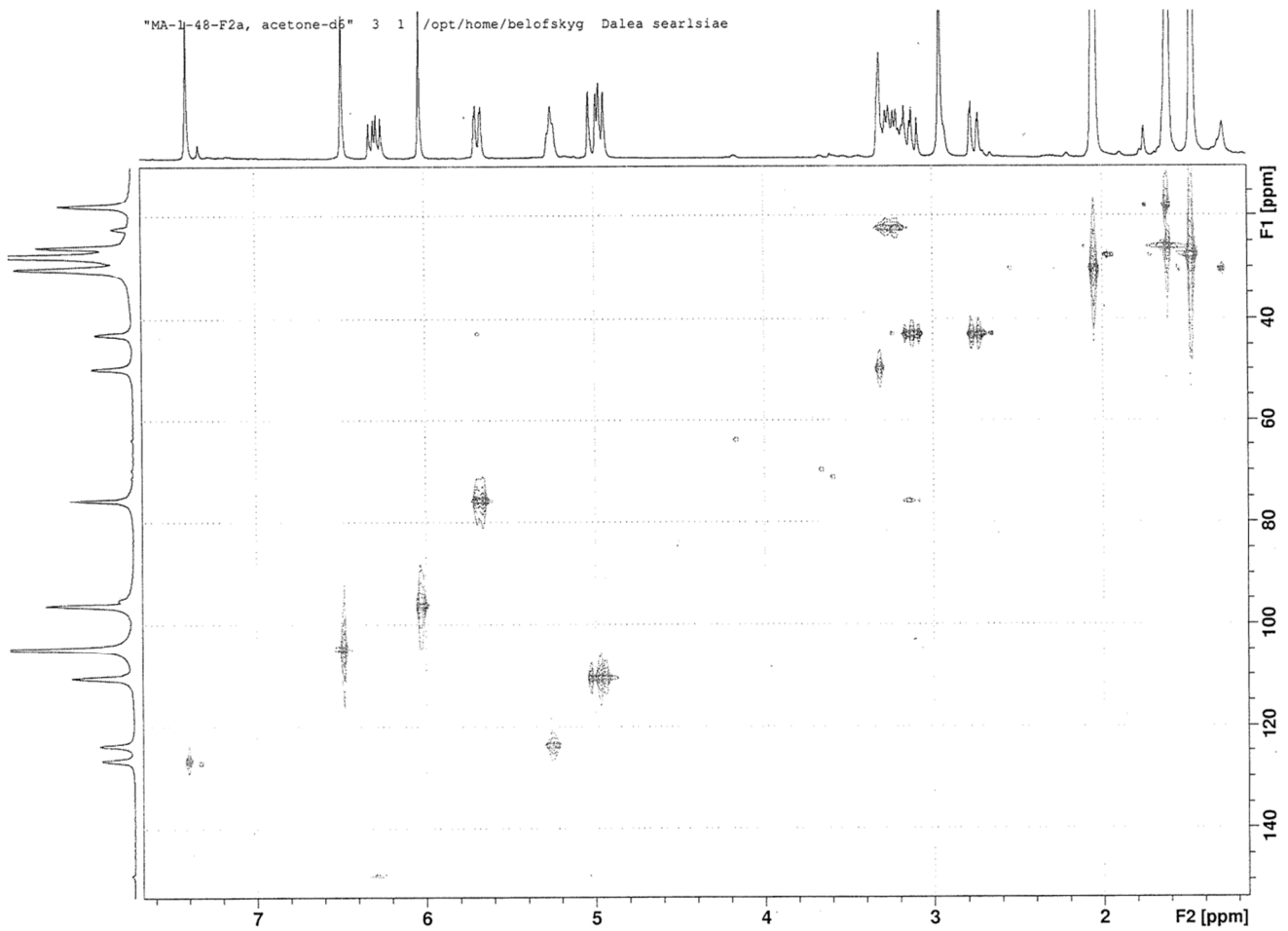


Figure S26. HSQC spectrum of (2*S*)-5'-(2-methylbut-3-en-2-yl)-8-(3-methylbut-2-en-1-yl)-5,7,2',4'-tetrahydroxyflavanone (**5**) (400 MHz; acetone-*d*₆).

"MA-1-48-F2a, acetone-d6" 4 1 /opt/home/belofskyg Dalea searlsiae

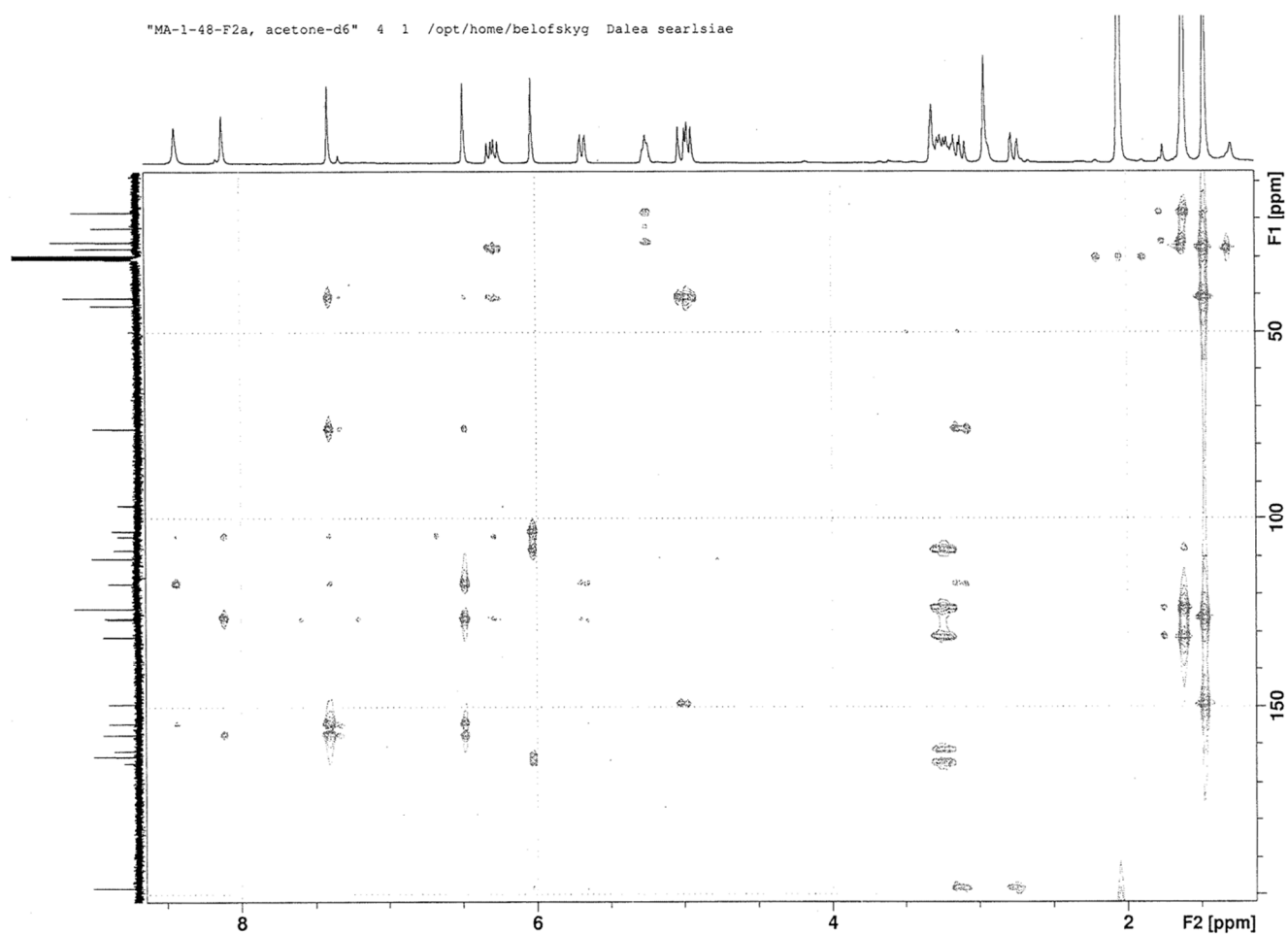


Figure S27. HMBC spectrum of (2*S*)-5'-(2-methylbut-3-en-2-yl)-8-(3-methylbut-2-en-1-yl)-5,7,2',4'-tetrahydroxyflavanone (**5**) (400 MHz; acetone-*d*₆).

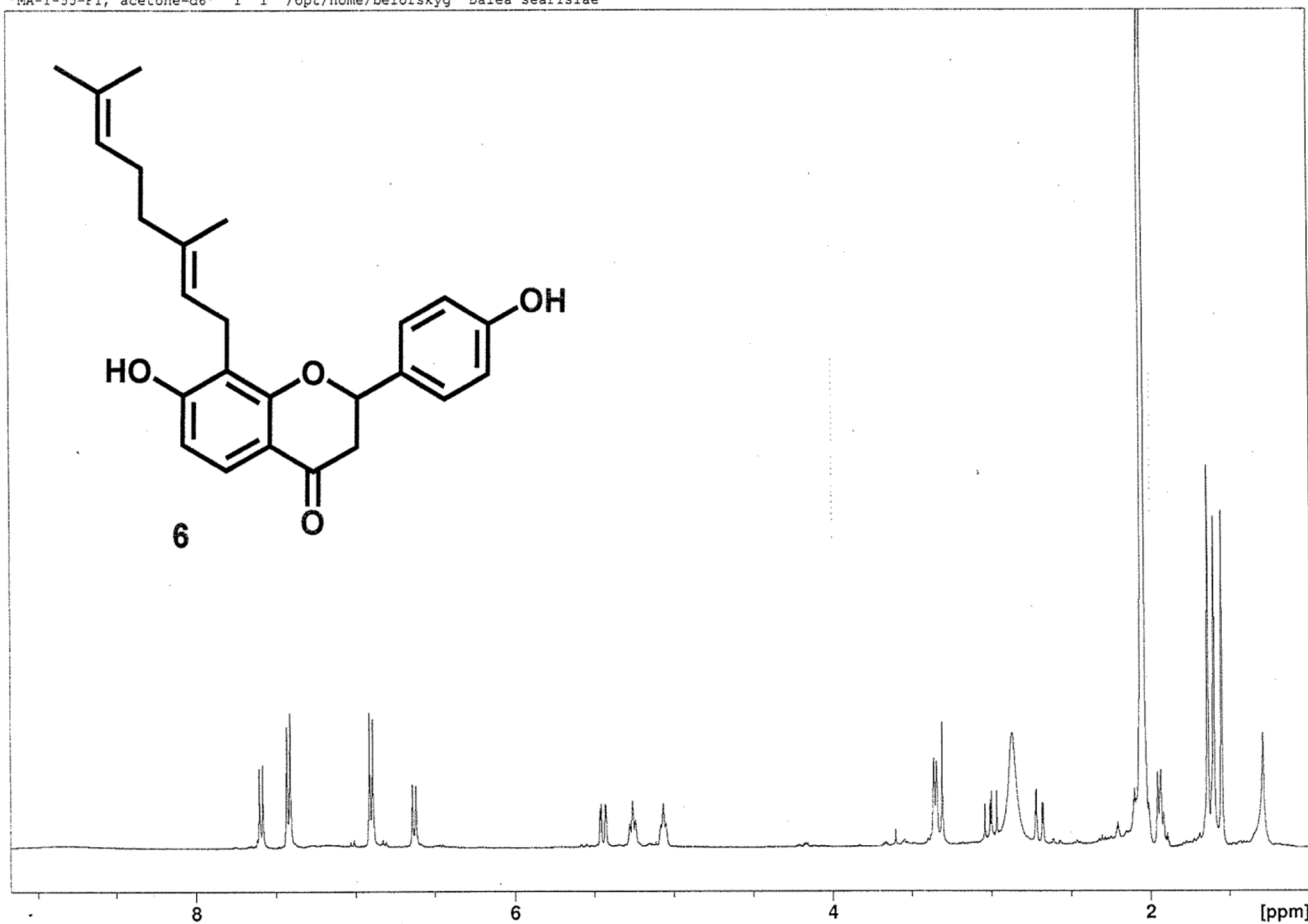


Figure S28. ¹H NMR spectrum of prostratol F (6) (400 MHz; acetone-*d*₆).

"MA-1-55-F1, 13C, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

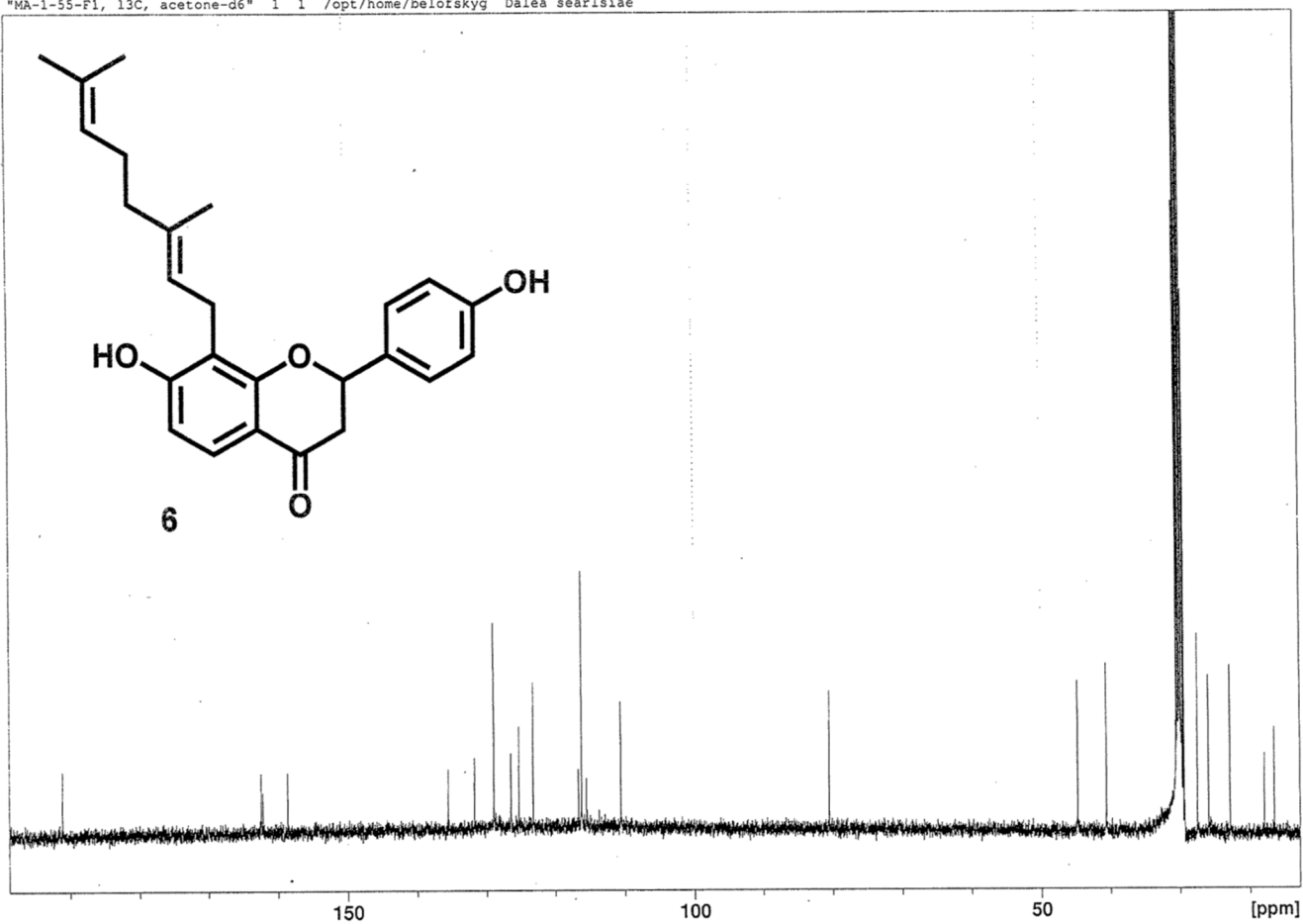


Figure S29. ^{13}C NMR spectrum of prostratol F (**6**) (100 MHz; acetone- d_6).

"MA-1-55-F1, DEPT, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

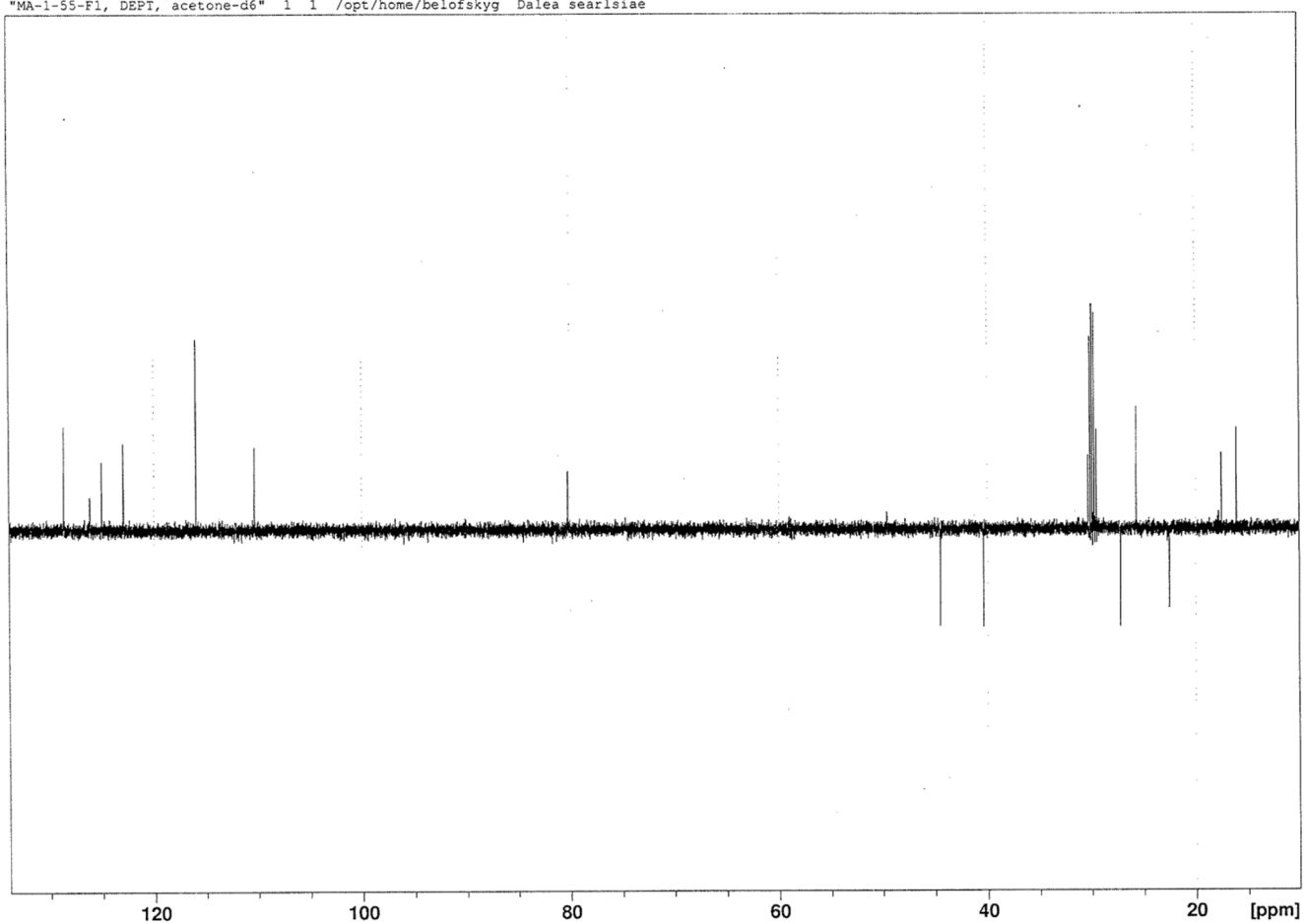


Figure S30. DEPT135 spectrum of prostratol F (**6**) (100 MHz; acetone- d_6).

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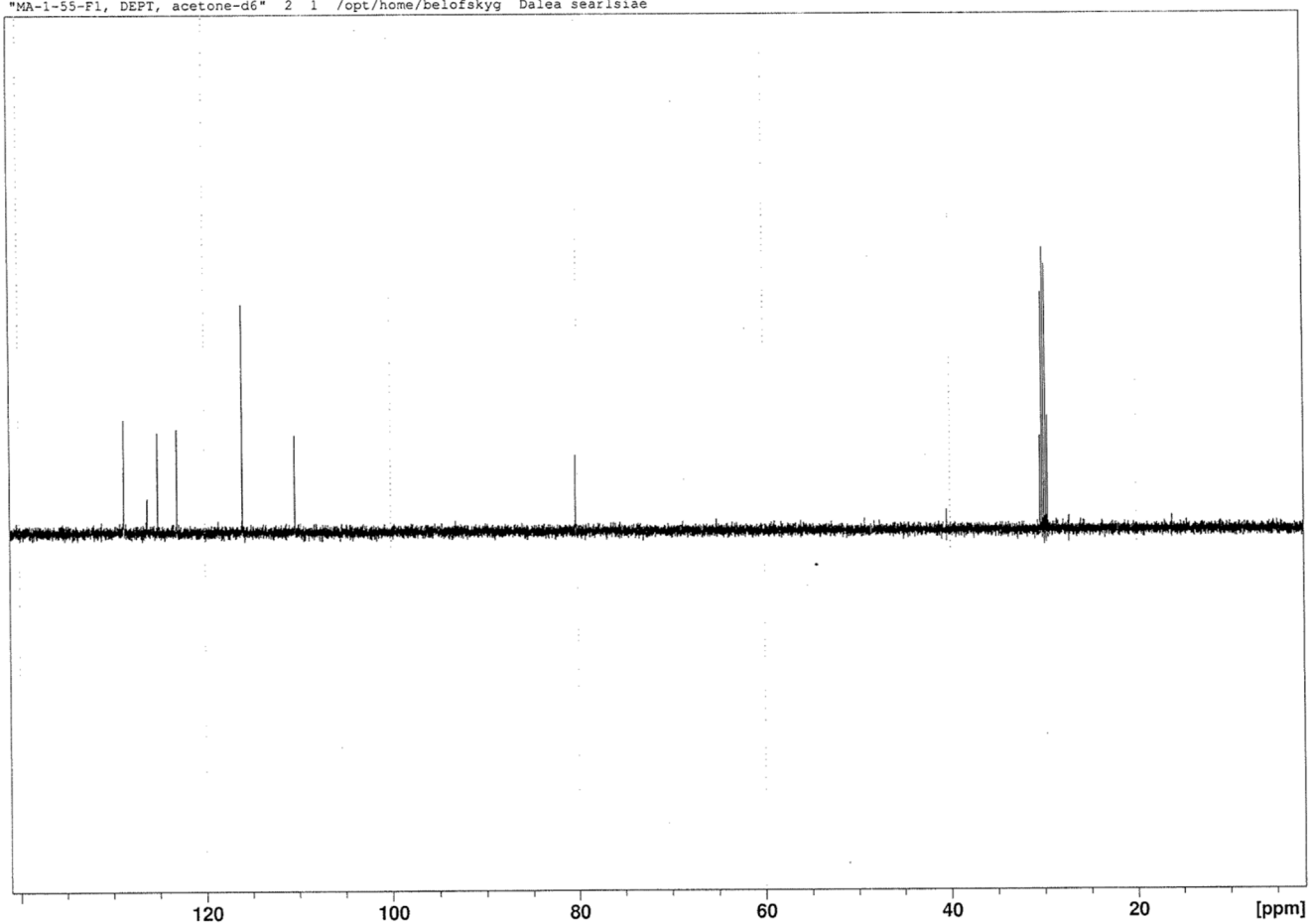


Figure S31. DEPT90 spectrum of prostratol F (**6**) (100 MHz; acetone- d_6).

"MA-1-55-F1, acetone-d6" 2 1 /opt/home/belofskyg Dalea searlsiae

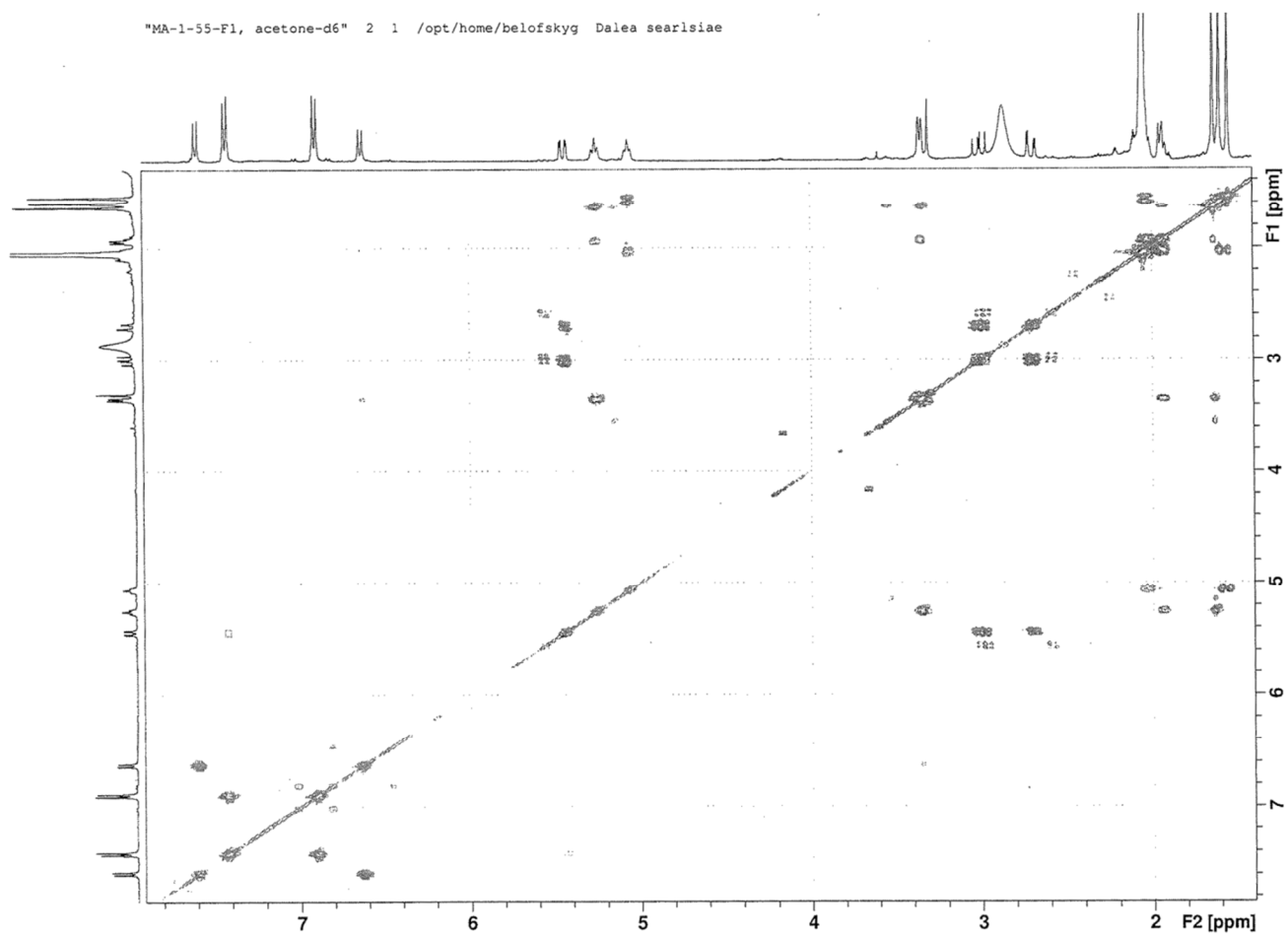


Figure S32. COSY spectrum of prostratol F (**6**) (400 MHz; acetone- d_6).

"MA-1-6-Fl6, 1H, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

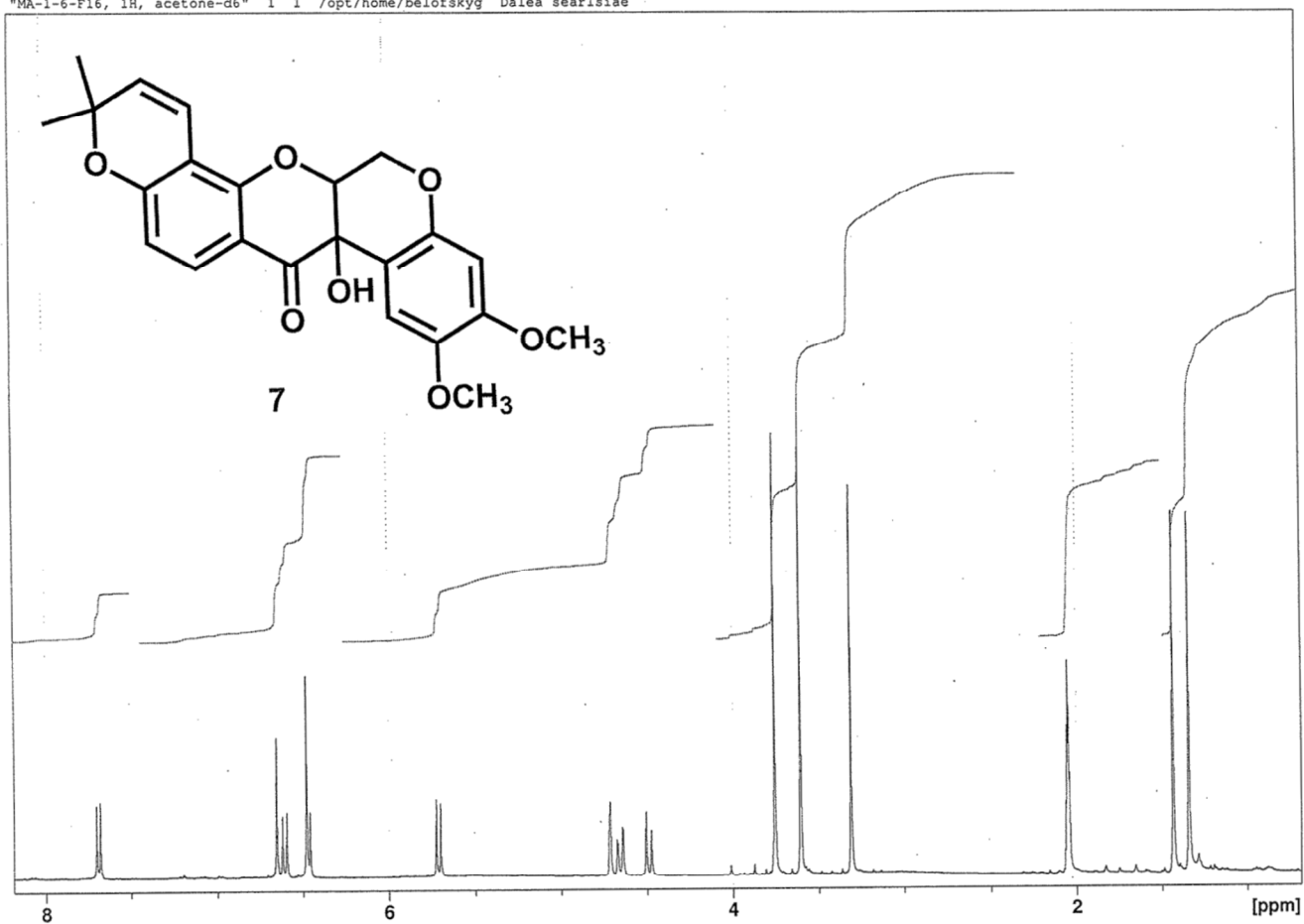


Figure S33. ¹H NMR spectrum of (-)-tephrosin (**7**) (400 MHz; acetone-*d*₆).

"MA-1-6-F16, 13C, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

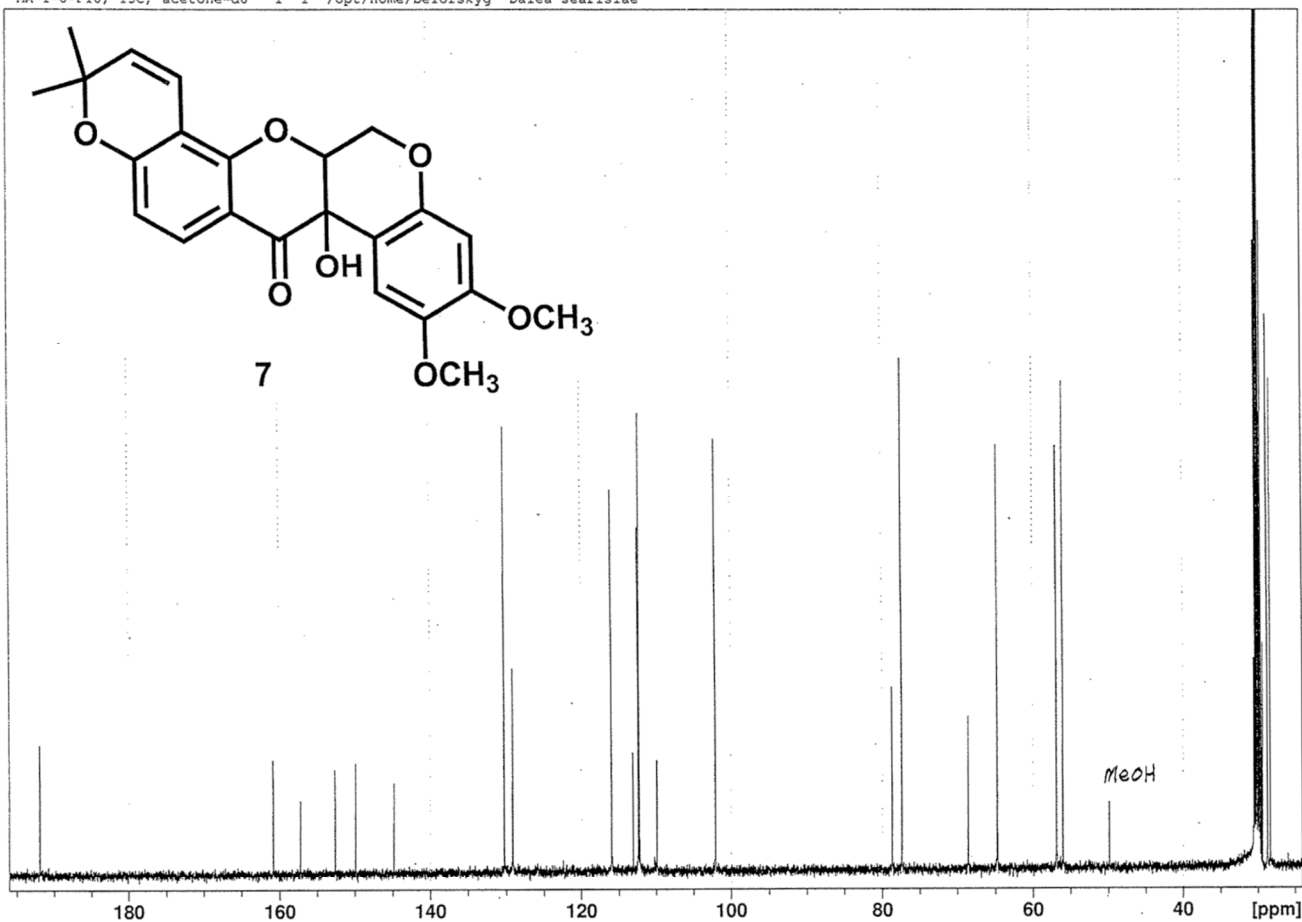


Figure S34. ^{13}C NMR spectrum of (-)-tephrosin (**7**) (100 MHz; acetone- d_6).

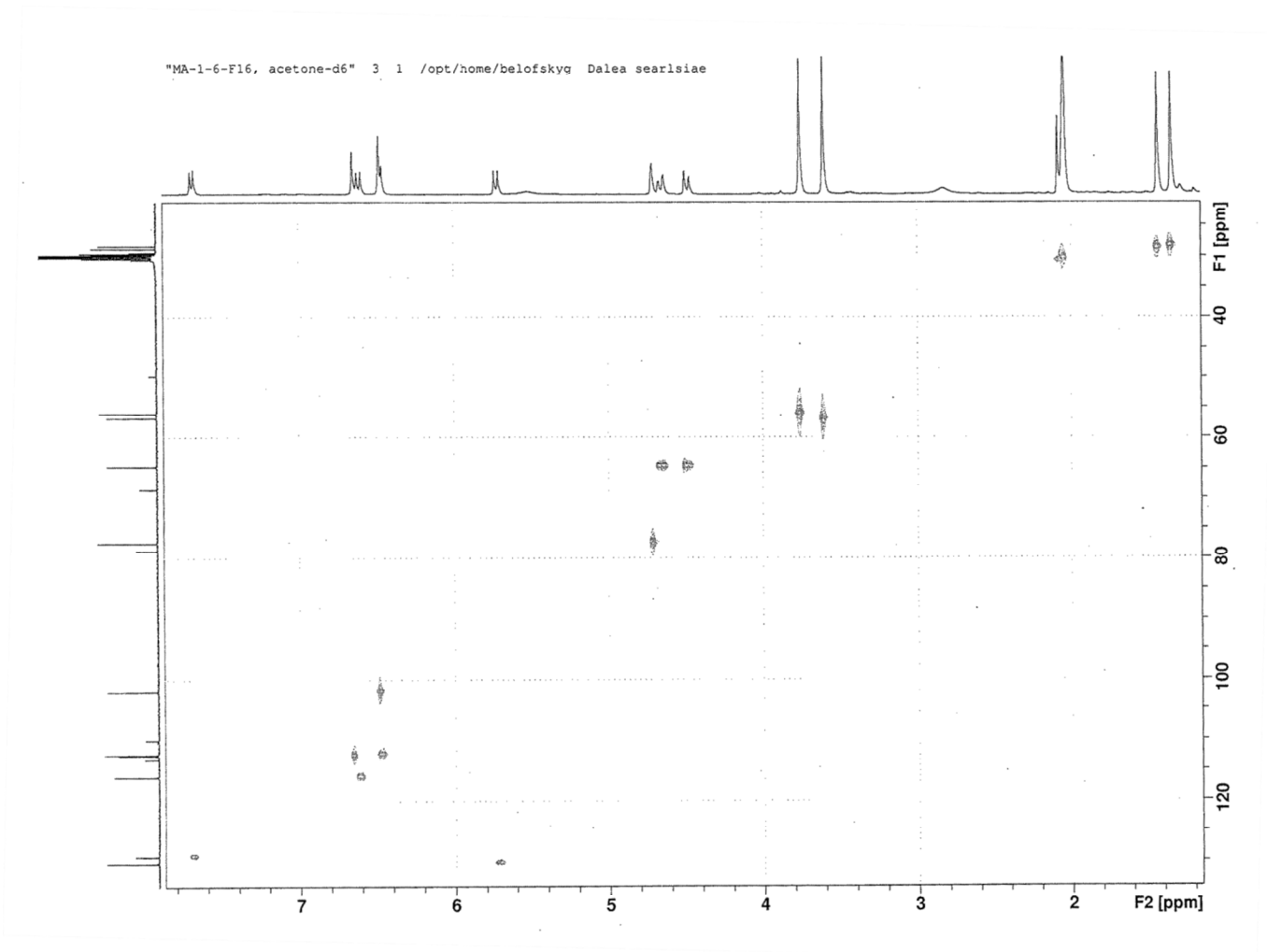


Figure S35. HSQC spectrum of (-)-tephrosin (**7**) (400 MHz; acetone- d_6).

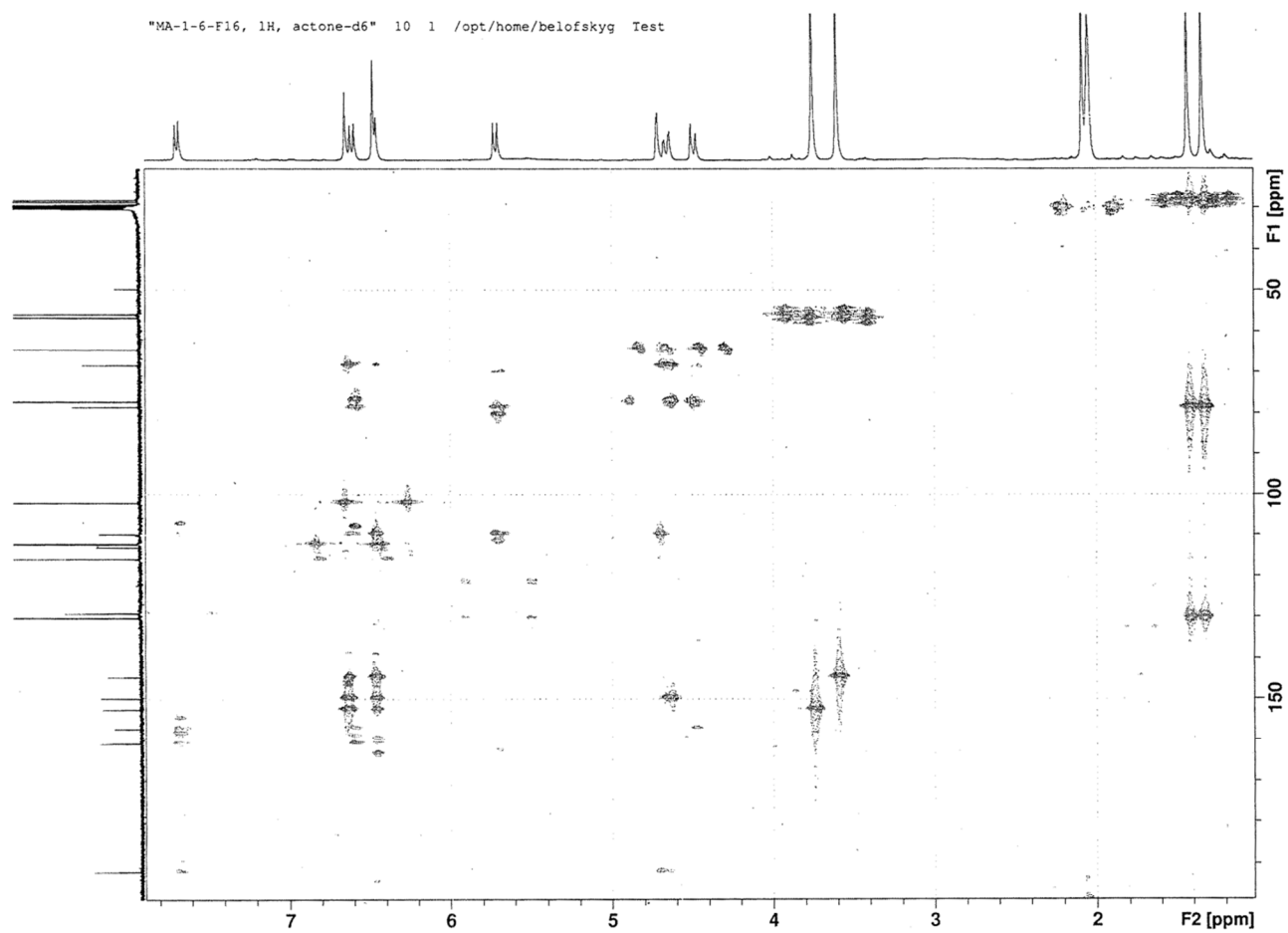


Figure S36. HMBC spectrum of (-)-tephrosin (**7**) (400 MHz; acetone- d_6).

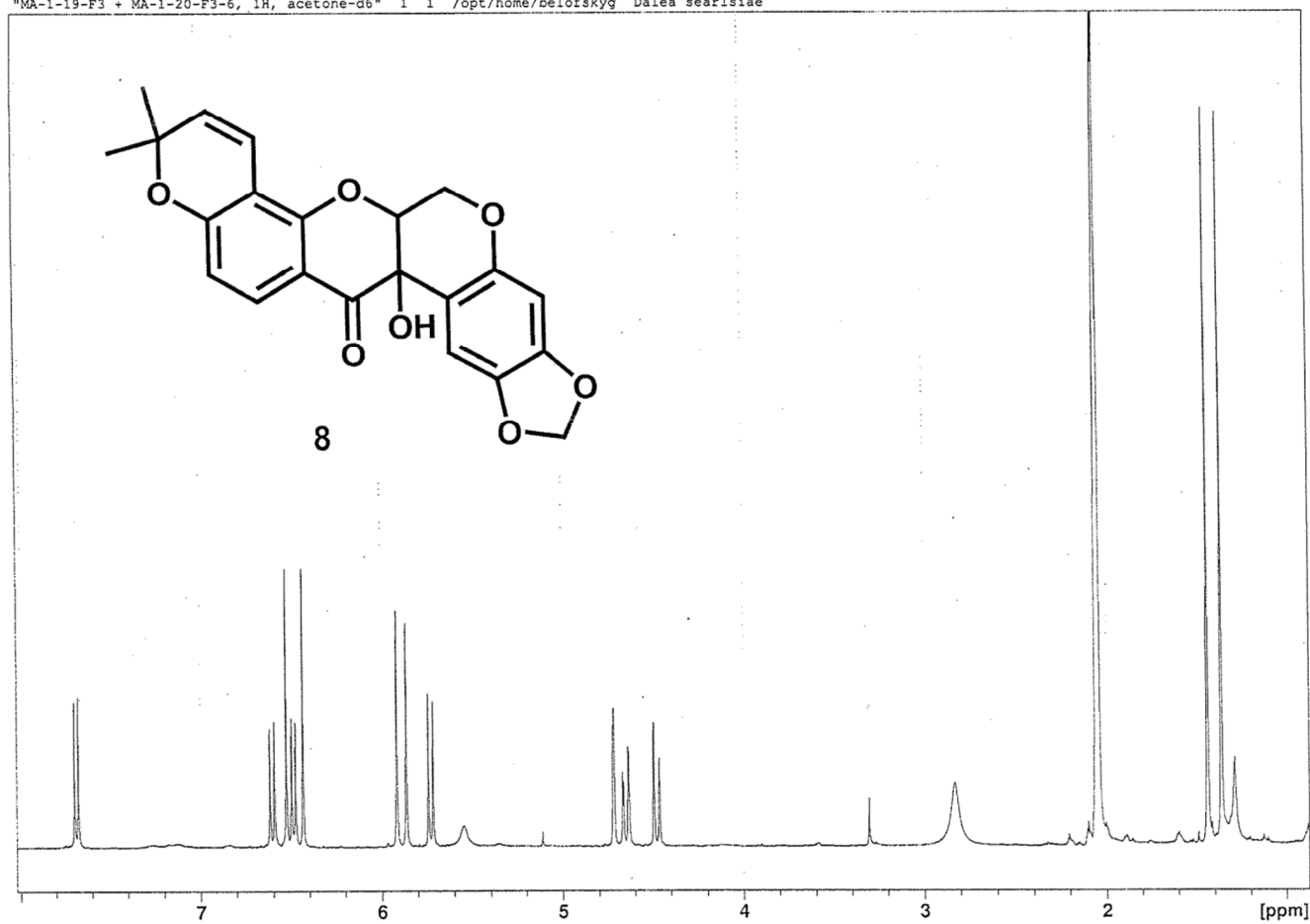


Figure S37. ^1H NMR spectrum of (-)-millettosin (**8**) (400 MHz; acetone- d_6).

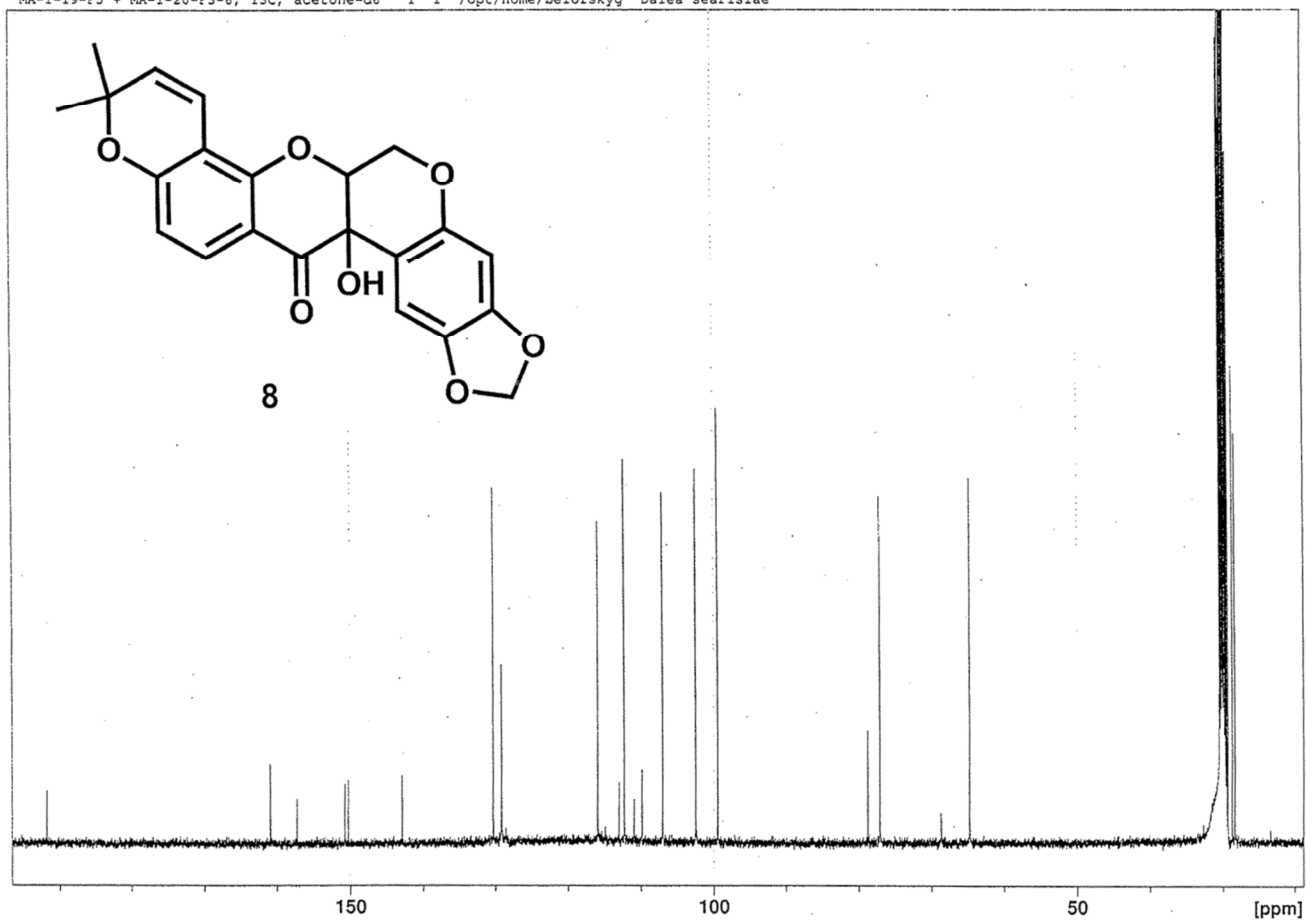


Figure S38. ¹³C NMR spectrum of (-)-millettosin (**8**) (100 MHz; acetone-*d*₆).

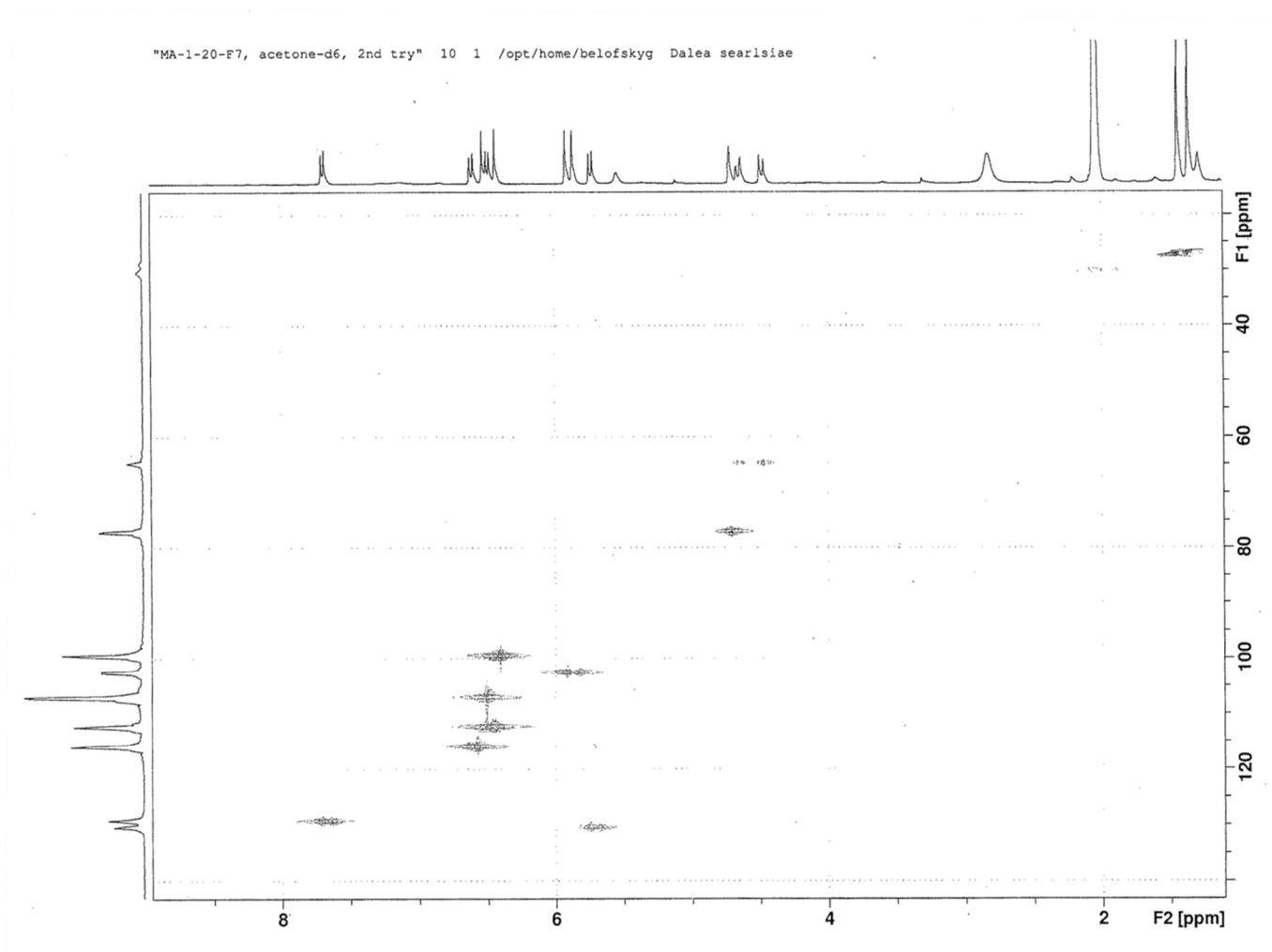


Figure S39. HSQC spectrum of (-)-millettosin (**8**) (400 MHz; acetone- d_6).

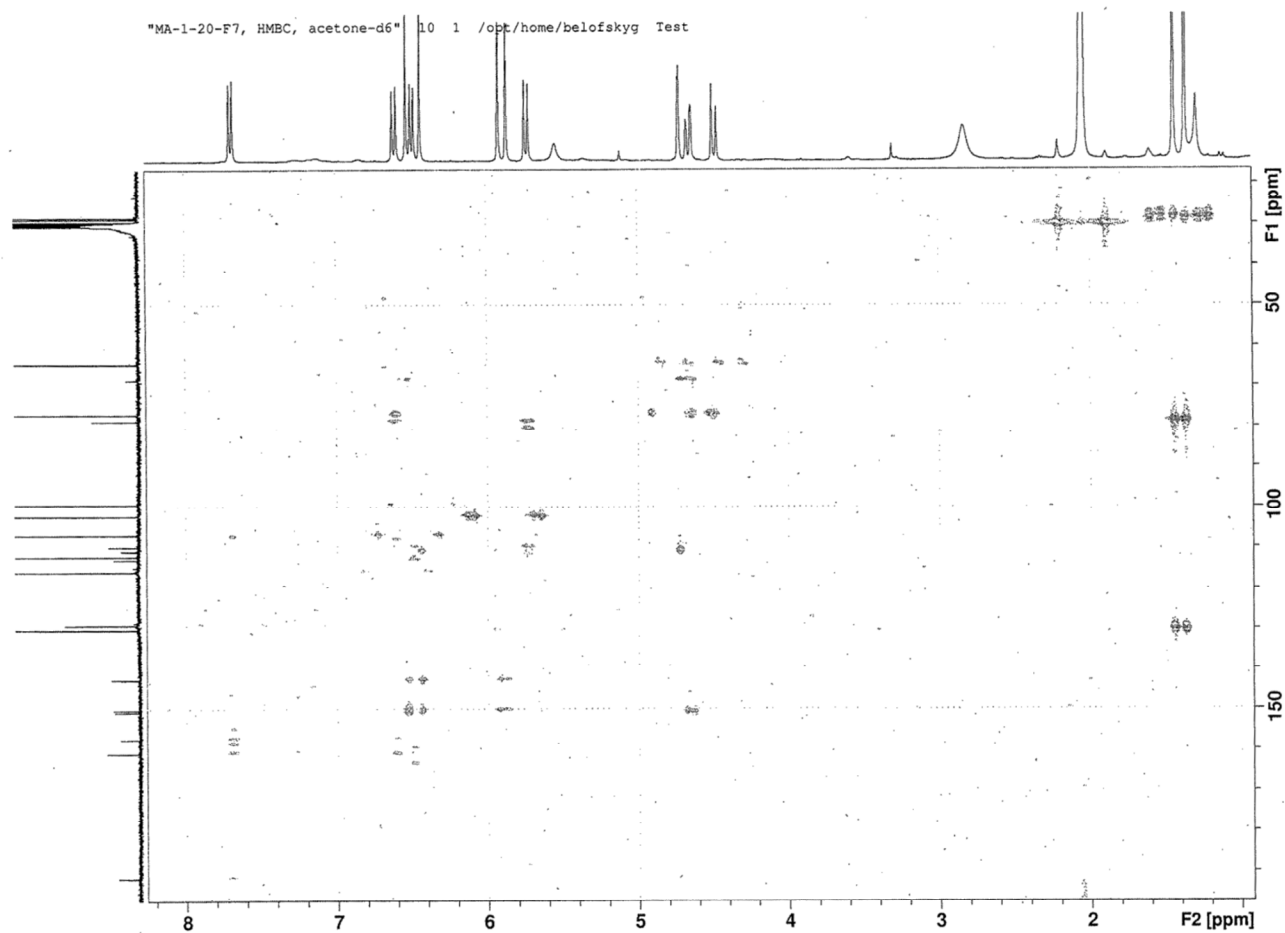


Figure S40. HMBC spectrum of (-)-millettosin (**8**) (400 MHz; acetone- d_6).

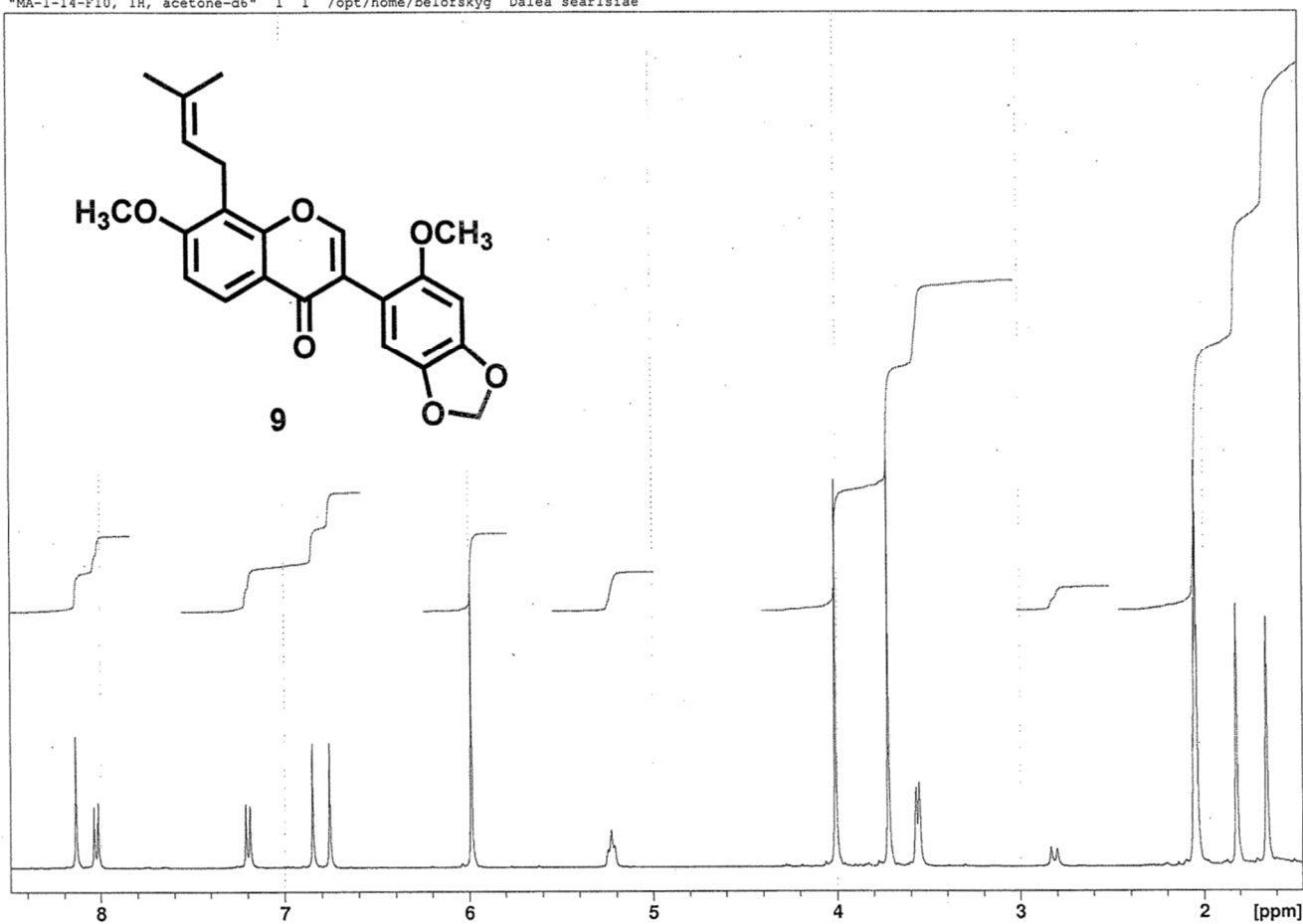


Figure S41. ¹H NMR spectrum of griffonianone E (**9**) (400 MHz; acetone-*d*₆).

"MA-1-14-F10, 13C, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

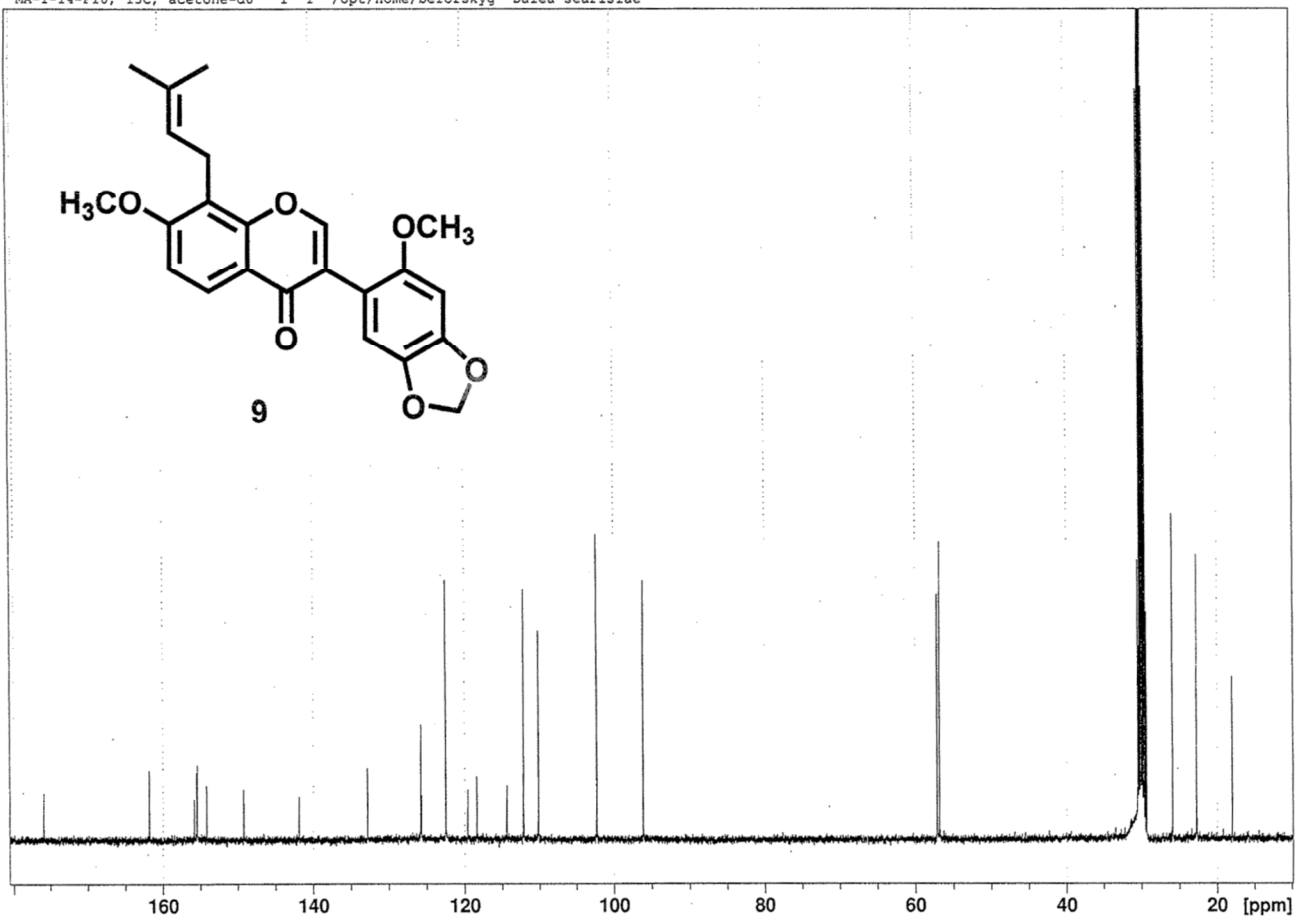


Figure S42. ¹³C NMR spectrum of griffonianone E (9) (100 MHz; acetone-*d*₆).

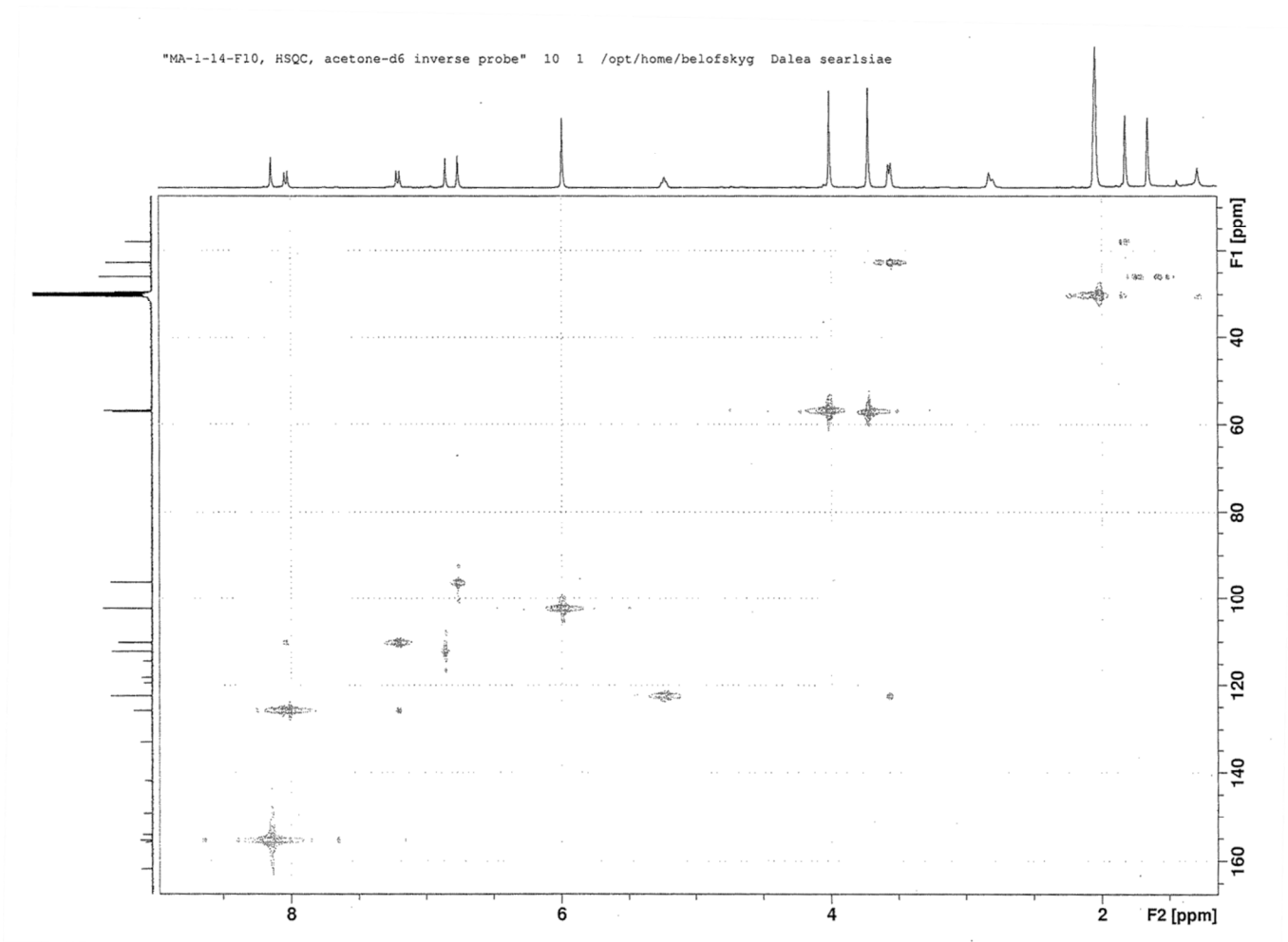


Figure S43. HSQC spectrum of griffonianone E (**9**) (400 MHz; acetone- d_6).

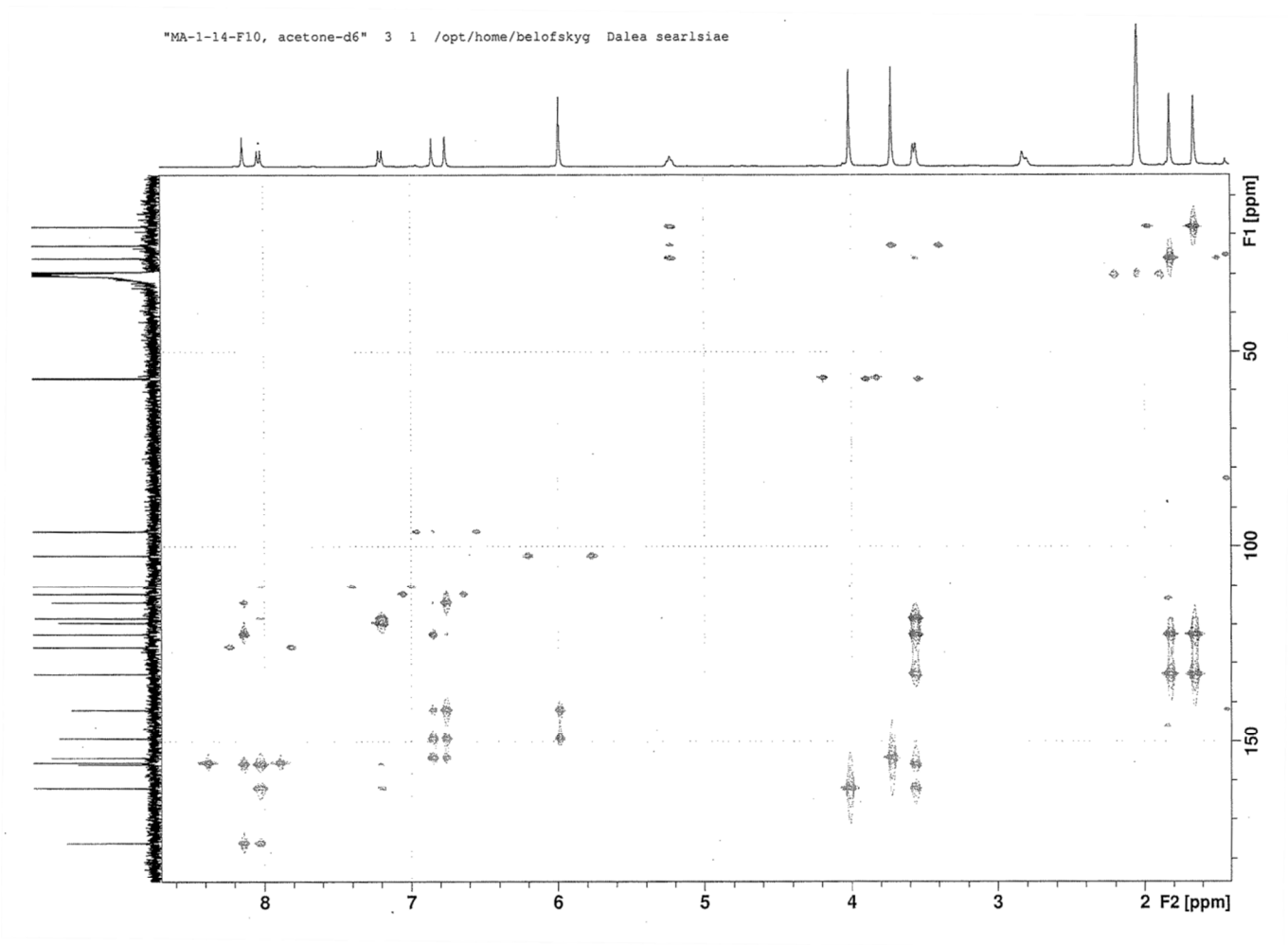


Figure S44. HMBC spectrum of griffonianone E (**9**) (400 MHz; acetone- d_6).

"MA-1-14-F3, 1H, acetone-d6 2" 1 1 /opt/home/belofskyg Dalea searisiae

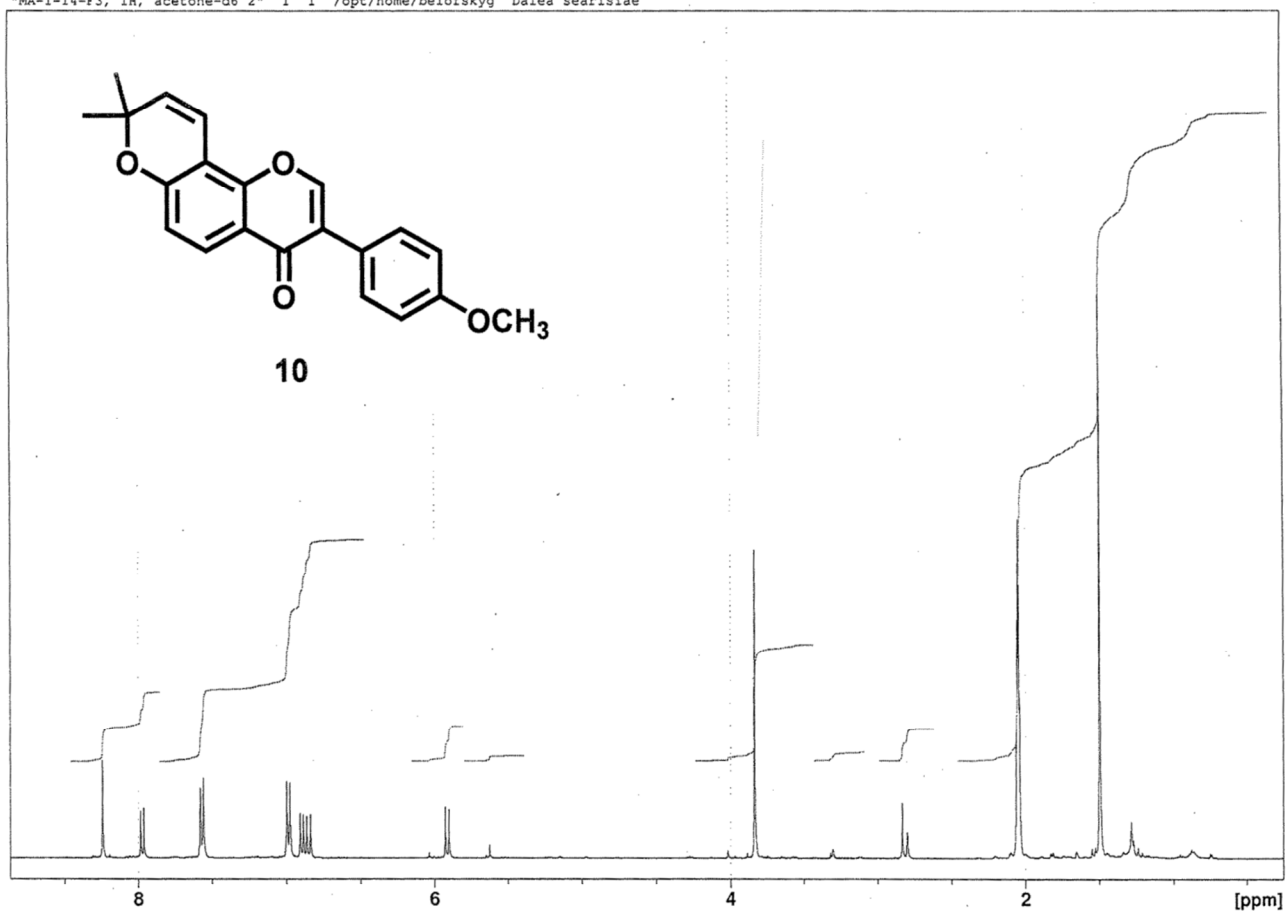


Figure S45. ¹H NMR spectrum of calopogonium isoflavone A (**10**) (400 MHz; acetone-*d*₆).

"MA-1-14-F3, 13C, acetone-d6" 1 1 /opt/home/belofskyg Dalea searlsiae

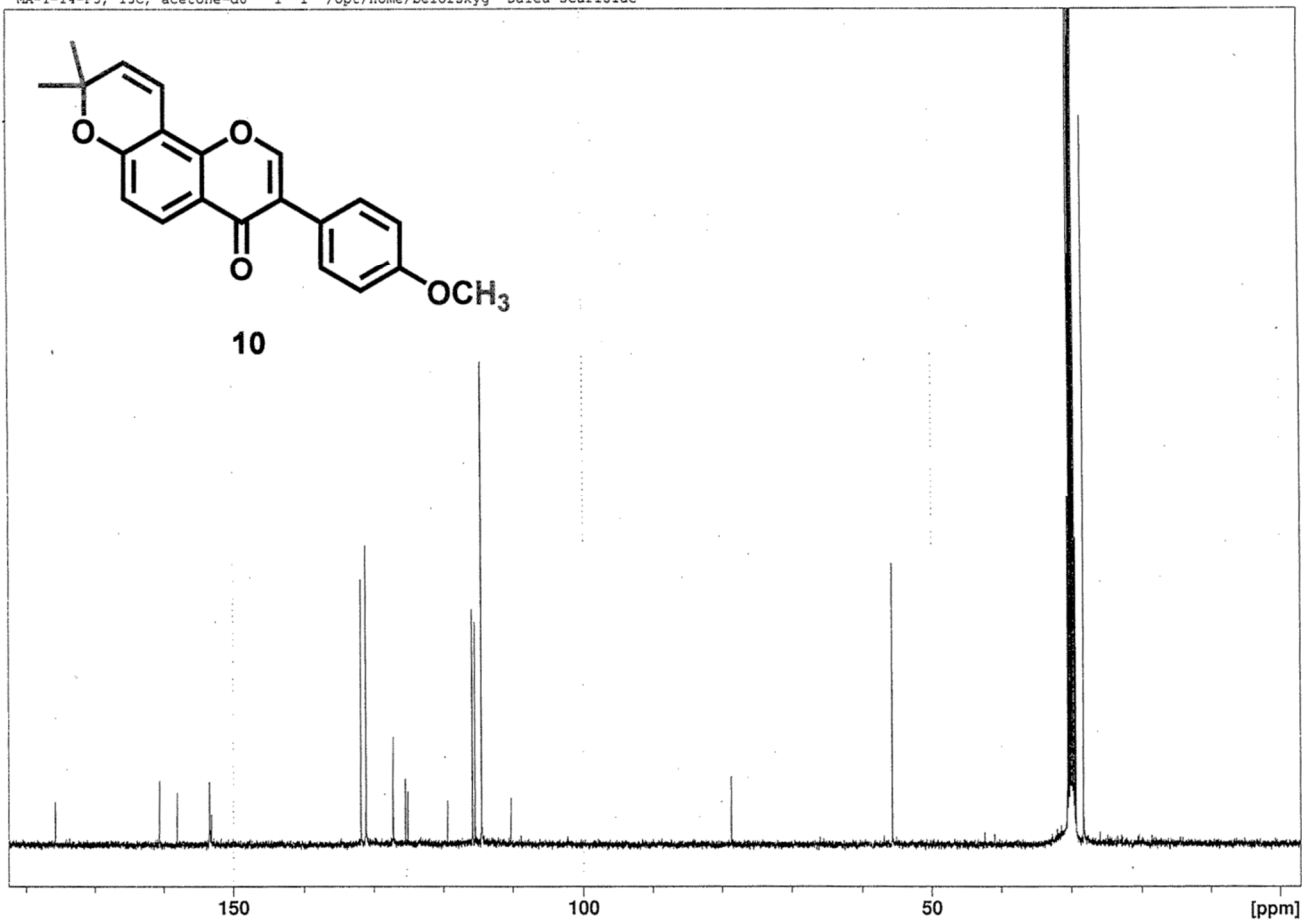


Figure S46. ¹³C NMR spectrum of calopogonium isoflavone A (**10**) (100 MHz; acetone-*d*₆).

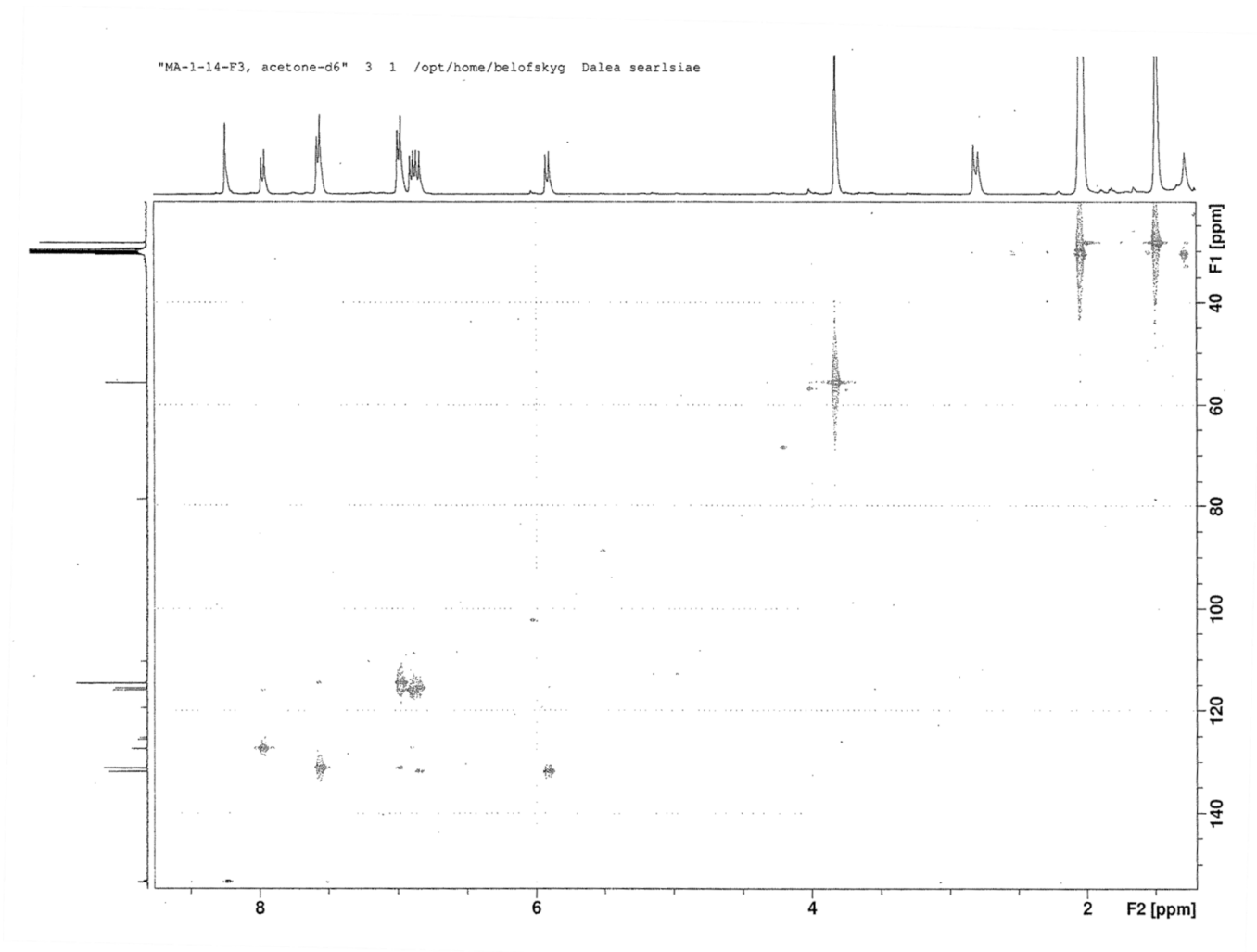


Figure S47. HSQC spectrum of calopogonium isoflavone A (**10**) (400 MHz; acetone- d_6).

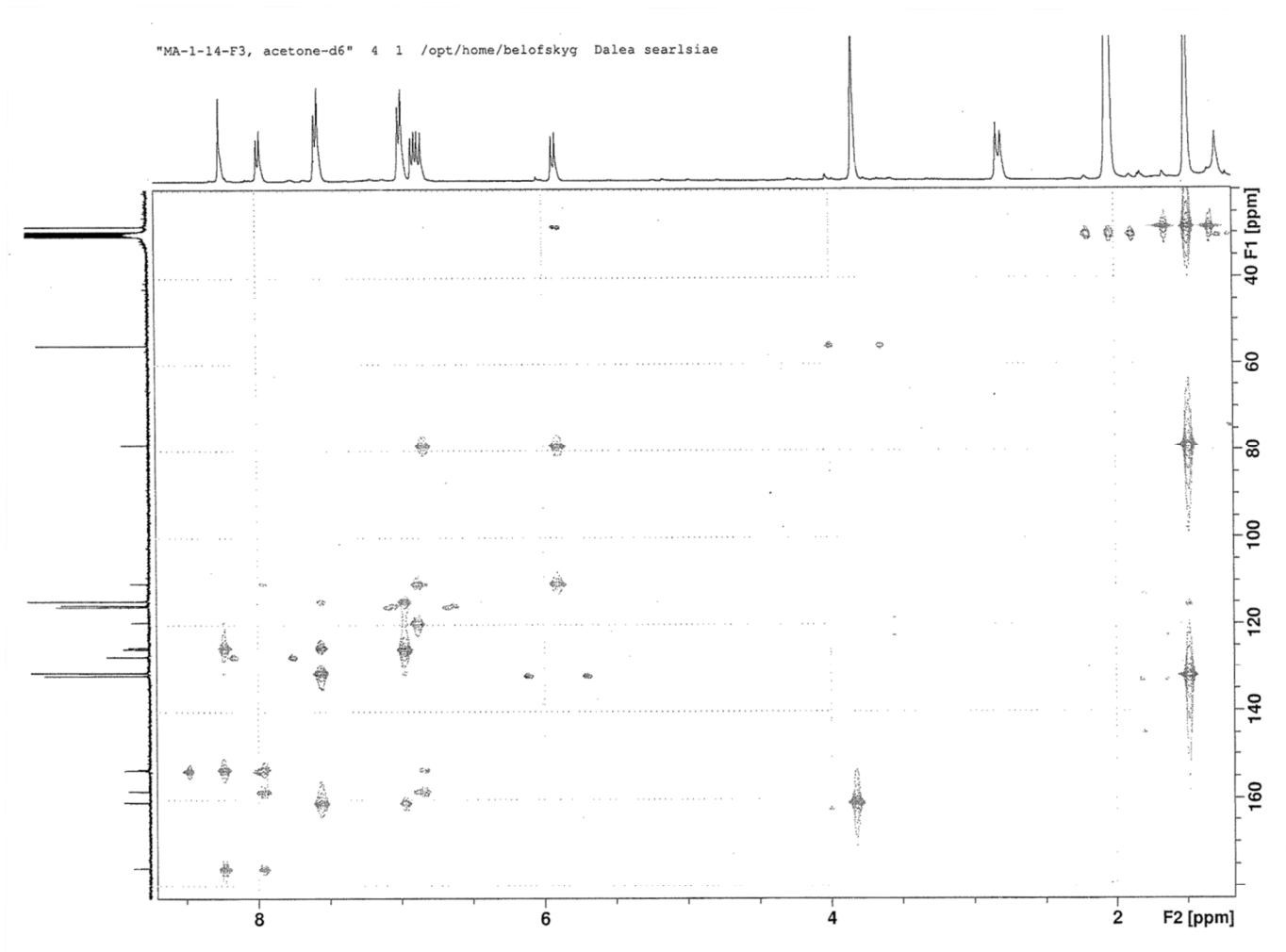


Figure S48. HMBC spectrum of calopogonium isoflavone A (**10**) (400 MHz; acetone- d_6).