

Supplementary material

***In vitro* growth inhibitory activities of natural products from irciniid sponges against cancer cells: a comparative study**

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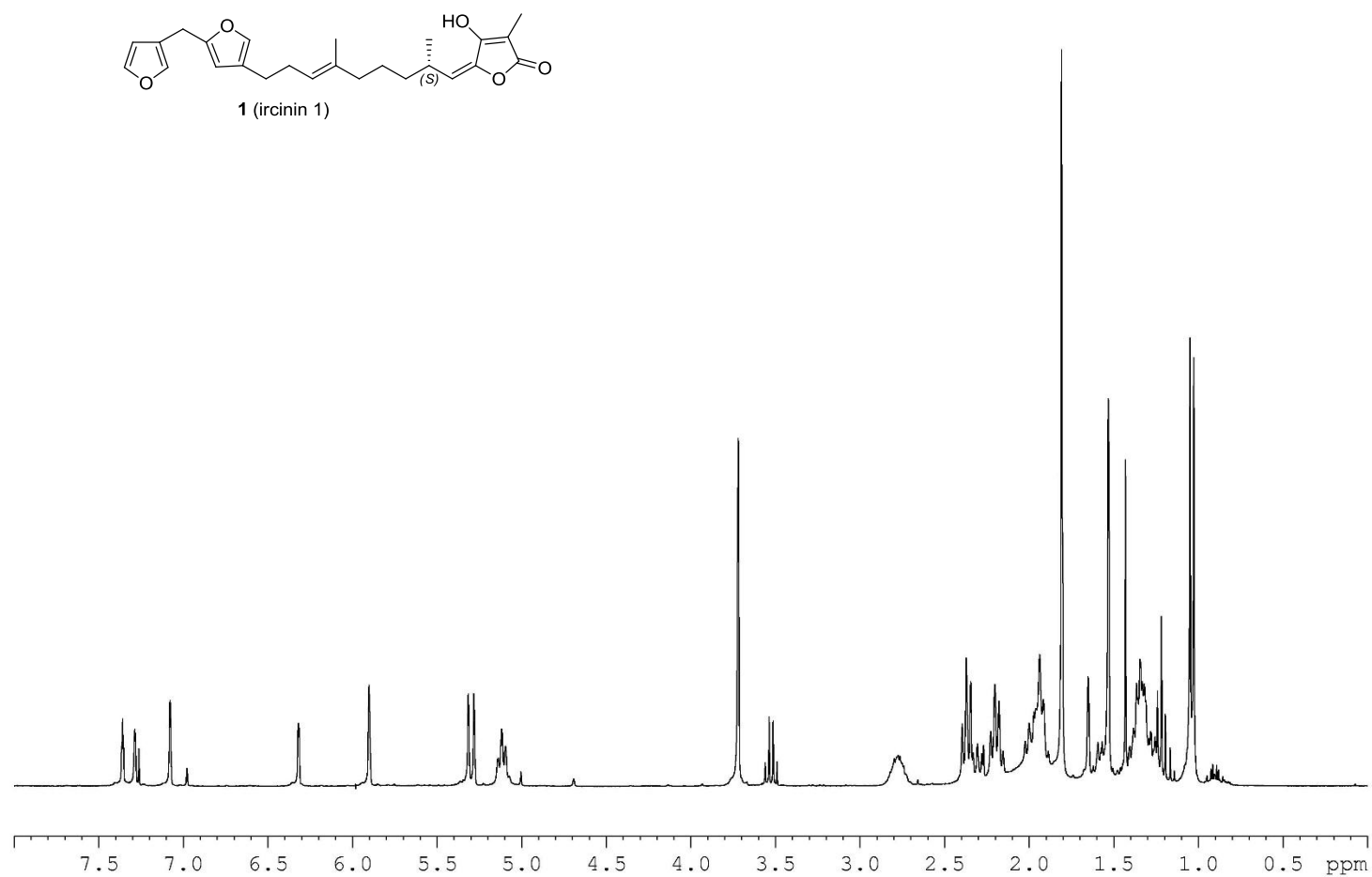
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⁴*Service de Neurochirurgie, Hôpital Erasme, ULB, 1070 Brussels, Belgium*

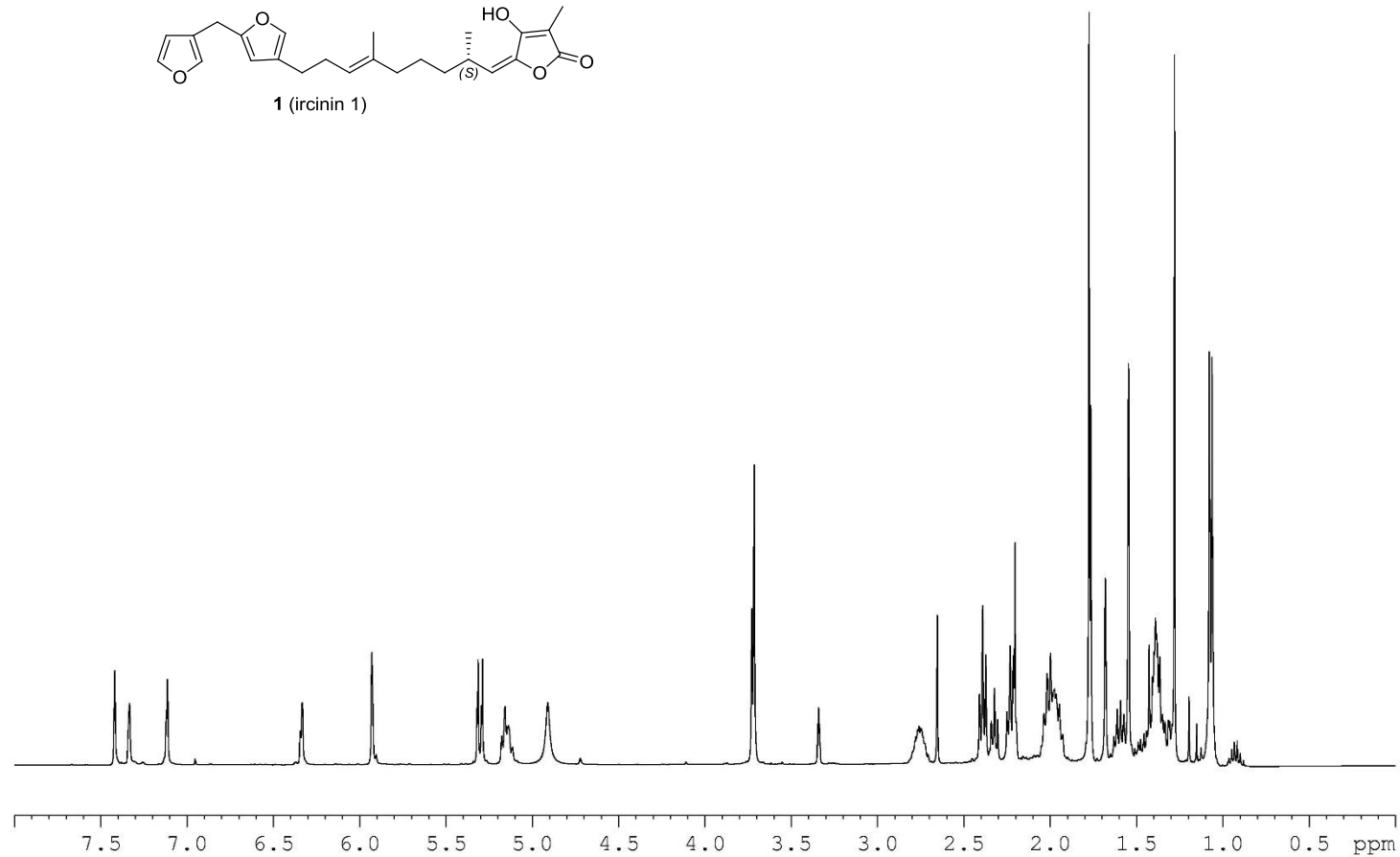
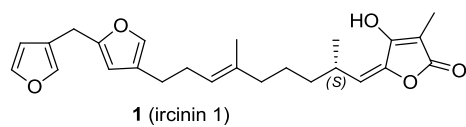
⁵*Laboratoire des Microorganismes et Biomolécules actives, Faculté des Sciences de Tunis, 2092 Tunis, Tunisia*

- S1. ¹H NMR spectrum of ircinin (**1**) from *S. spinosulus* (CDCl₃, Bruker 400 MHz)
- S2. ¹H NMR spectrum of ircinin (**1**) from *S. spinosulus* (CD₃OD, Bruker 600 MHz)
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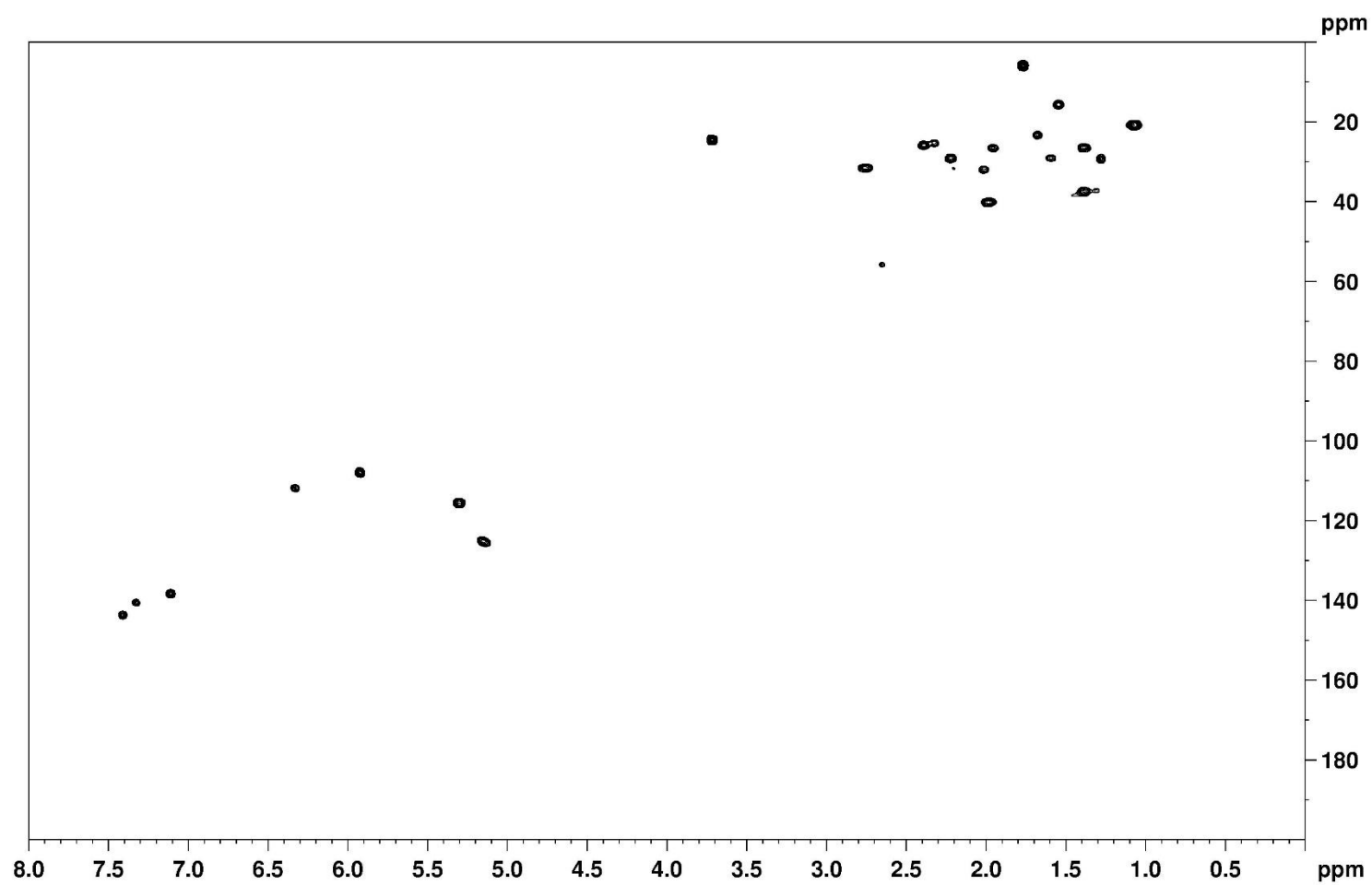
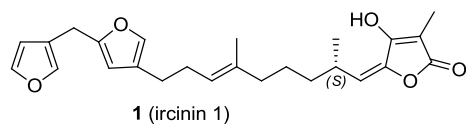
- S13. HSQC spectrum of variabilin (**3**) from *S. fasciculatus* (CDCl₃, Bruker 400 MHz)
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- S21. ¹H NMR spectrum of compound **6** from *S. foetidus* (CDCl₃, Bruker 400 MHz)
- S22. HSQC spectrum of compound **6** from *S. foetidus* (CDCl₃, Bruker 400 MHz)
- S23. ESI MS spectrum of compound **6** from *S. foetidus* sponge



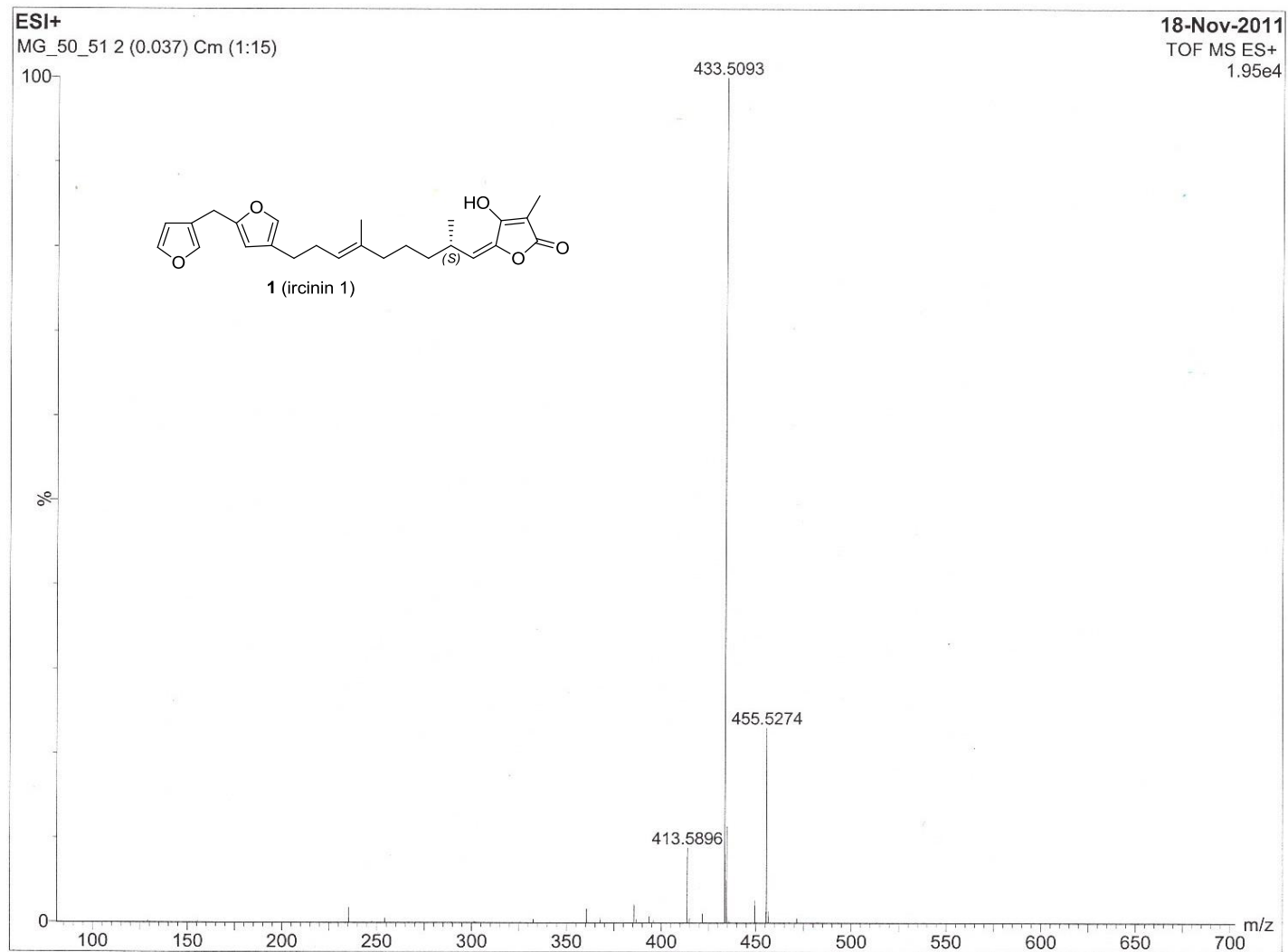
¹H NMR spectrum of ircinin (**1**) from *S. spinosulus* (CDCl₃, Bruker 400 MHz)

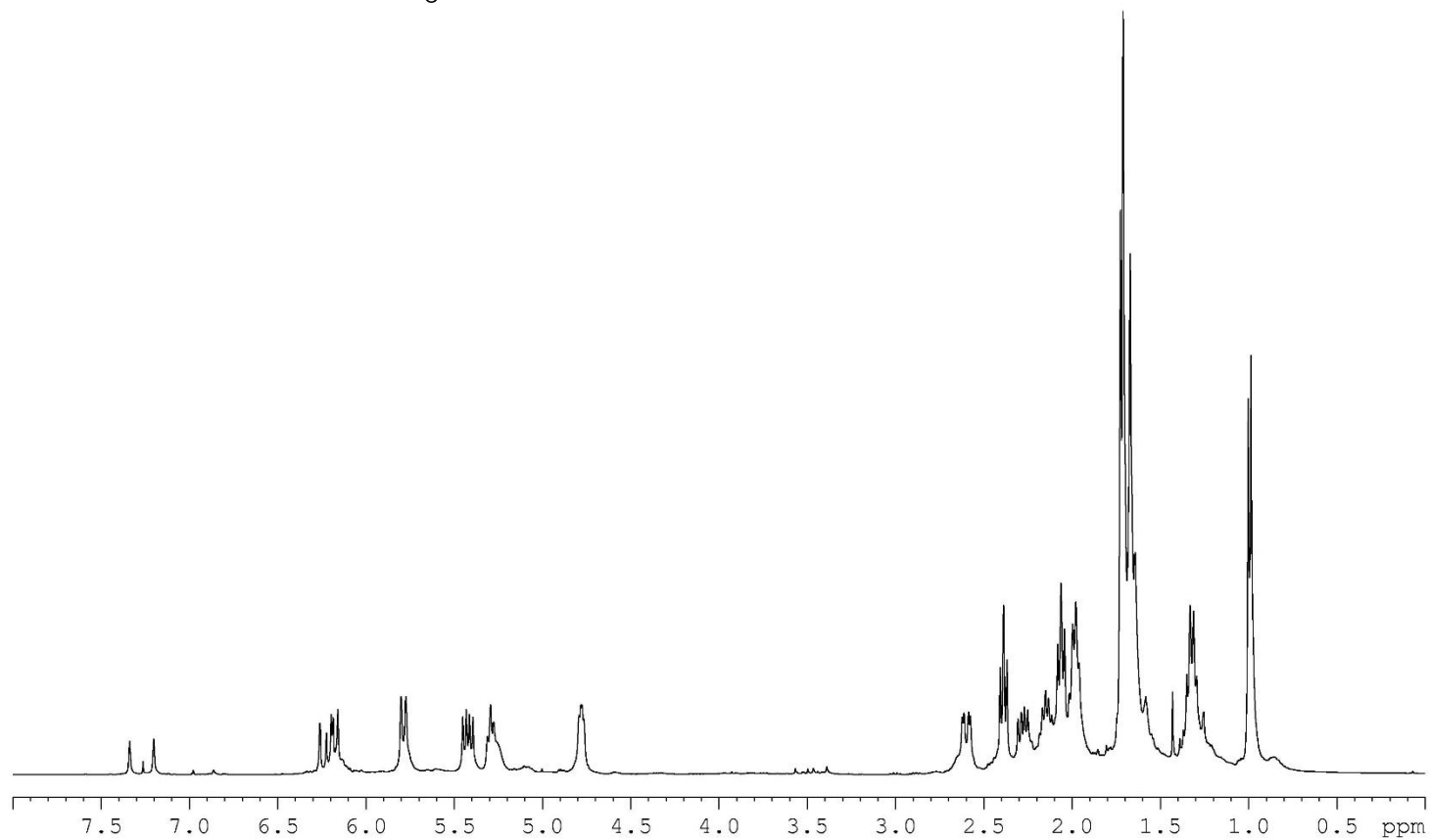
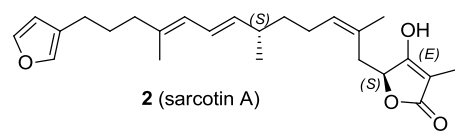


^1H NMR spectrum of ircinin (**1**) from *S. spinosulus* (CD_3OD , Bruker 600 MHz)

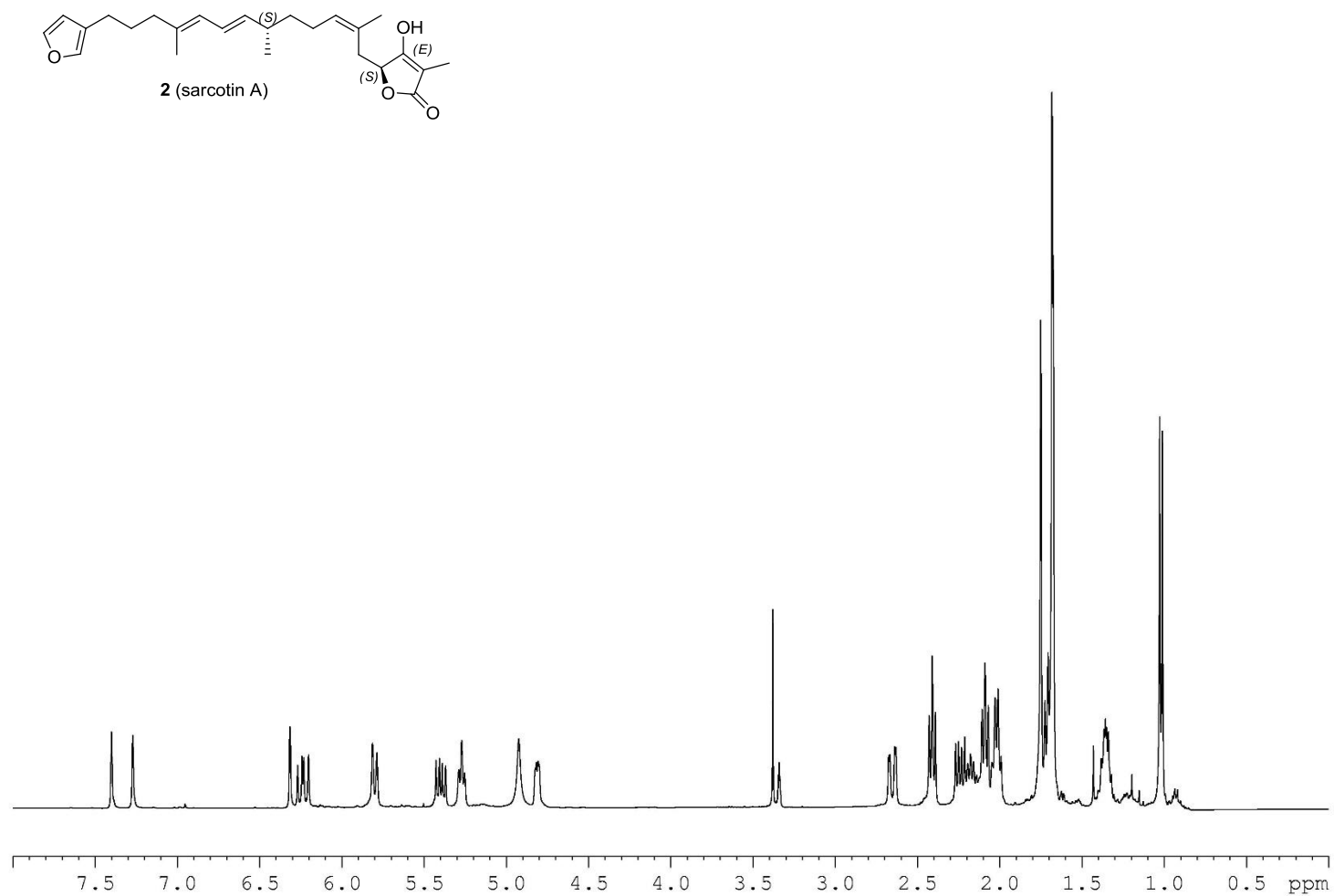


HSQC spectrum of ircinin (**1**) from *S. spinosulus* (CD₃OD, Bruker 600 MHz)

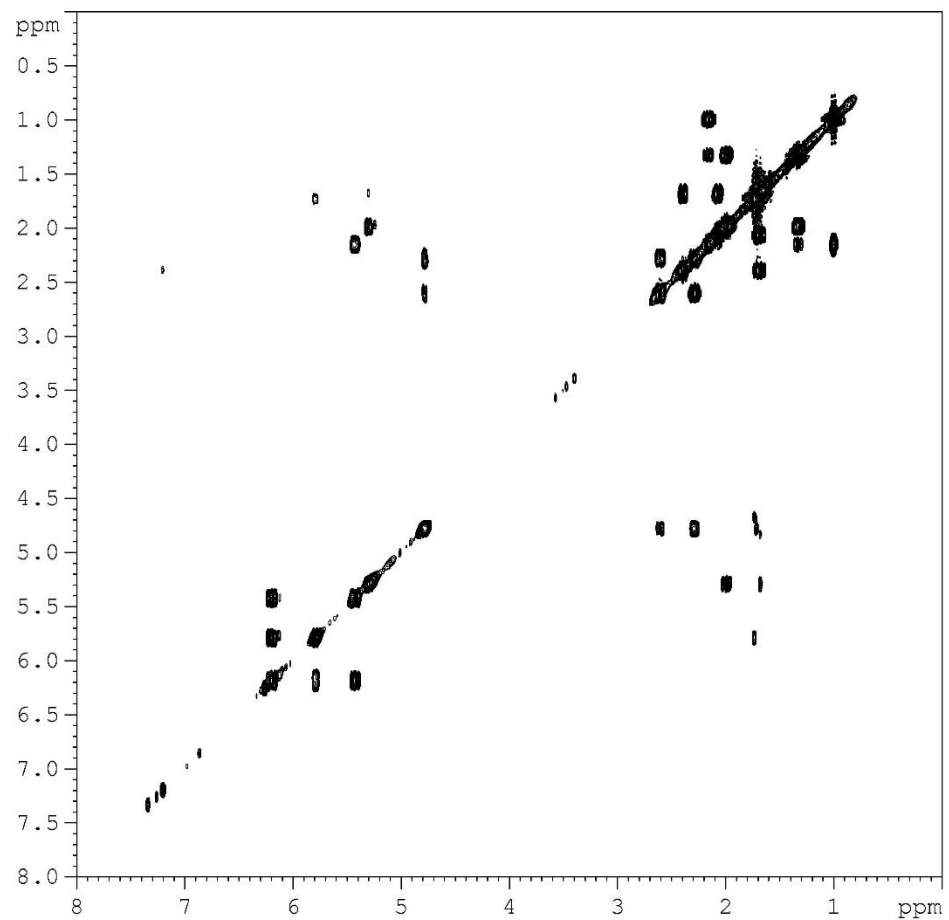
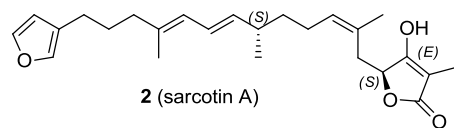
ESI MS spectrum of ircinin (**1**) from *S. spinosulus*



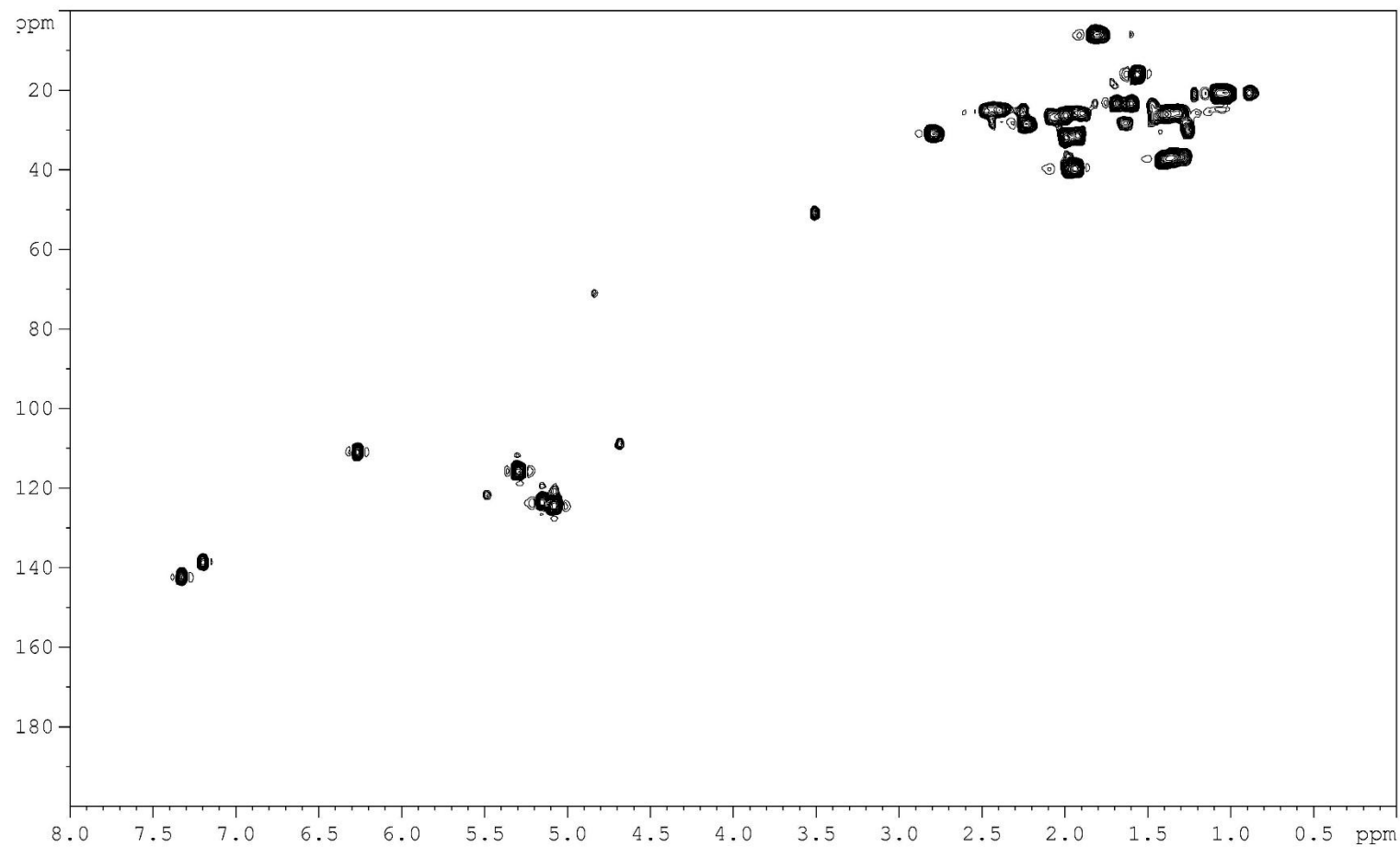
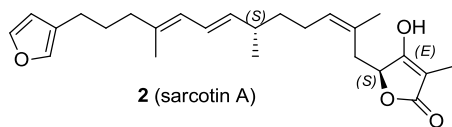
^1H NMR spectrum of sarcotinin A (**2**) from *S. fasciculatus* (CDCl_3 , Bruker 400 MHz)



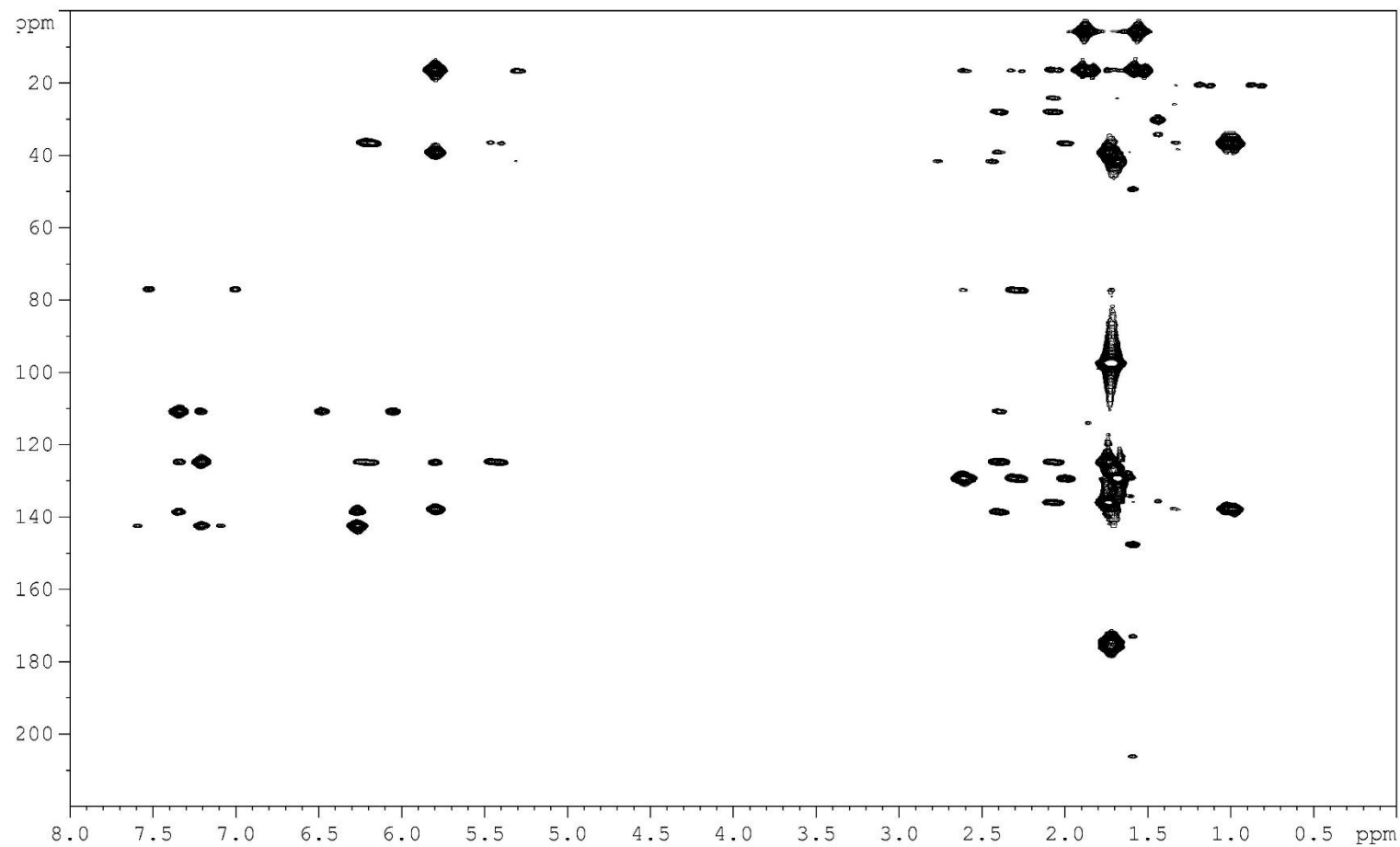
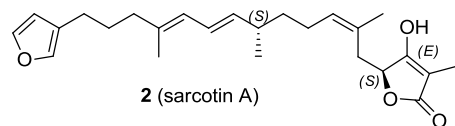
¹H NMR spectrum of sarcotin A (**2**) from *S. fasciculatus* (CD₃OD, Bruker 400 MHz)



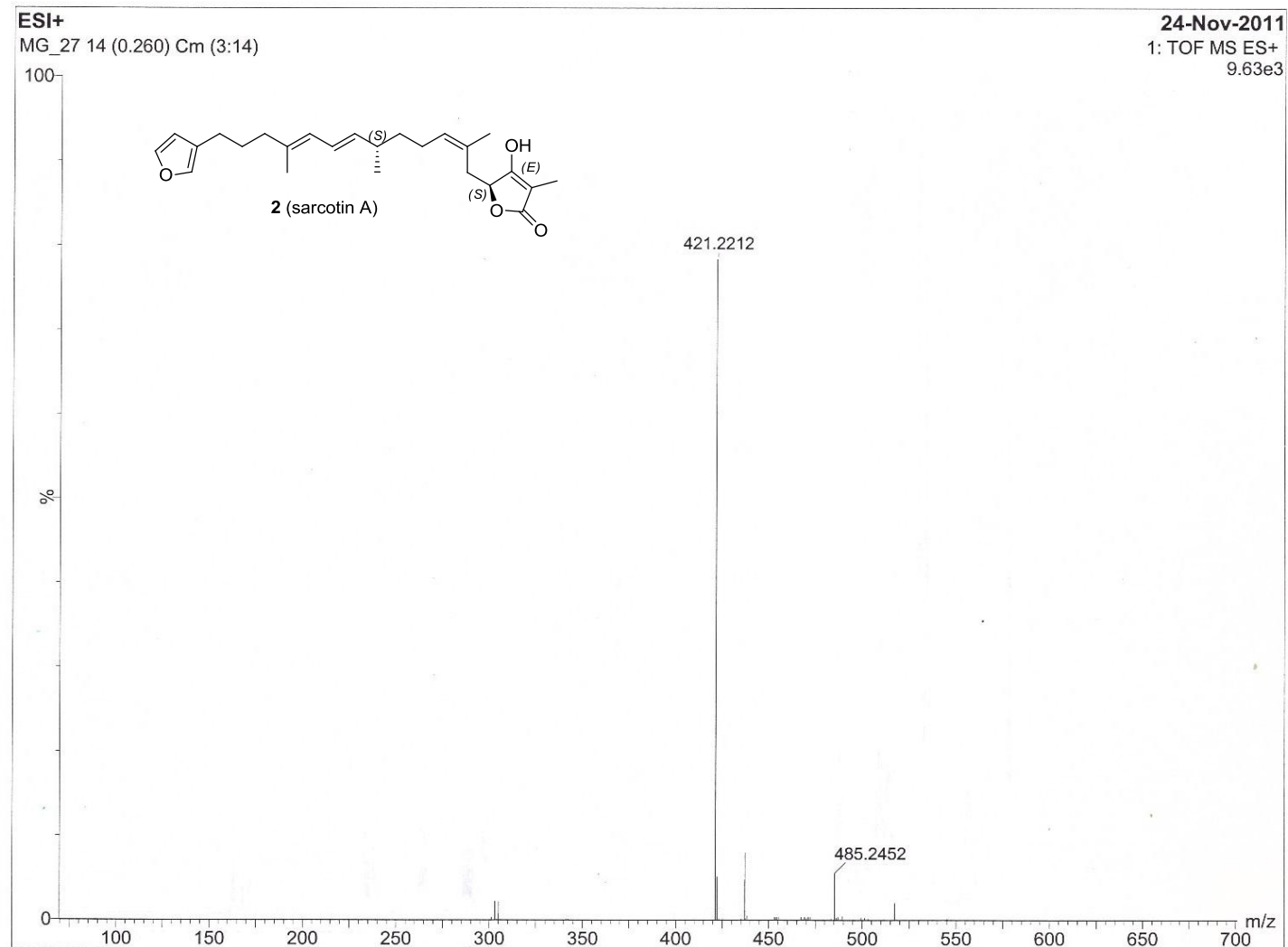
^1H - ^1H COSY spectrum of sarcotinin A (**2**) from *S. fasciculatus* (CDCl_3 , Bruker 400 MHz)

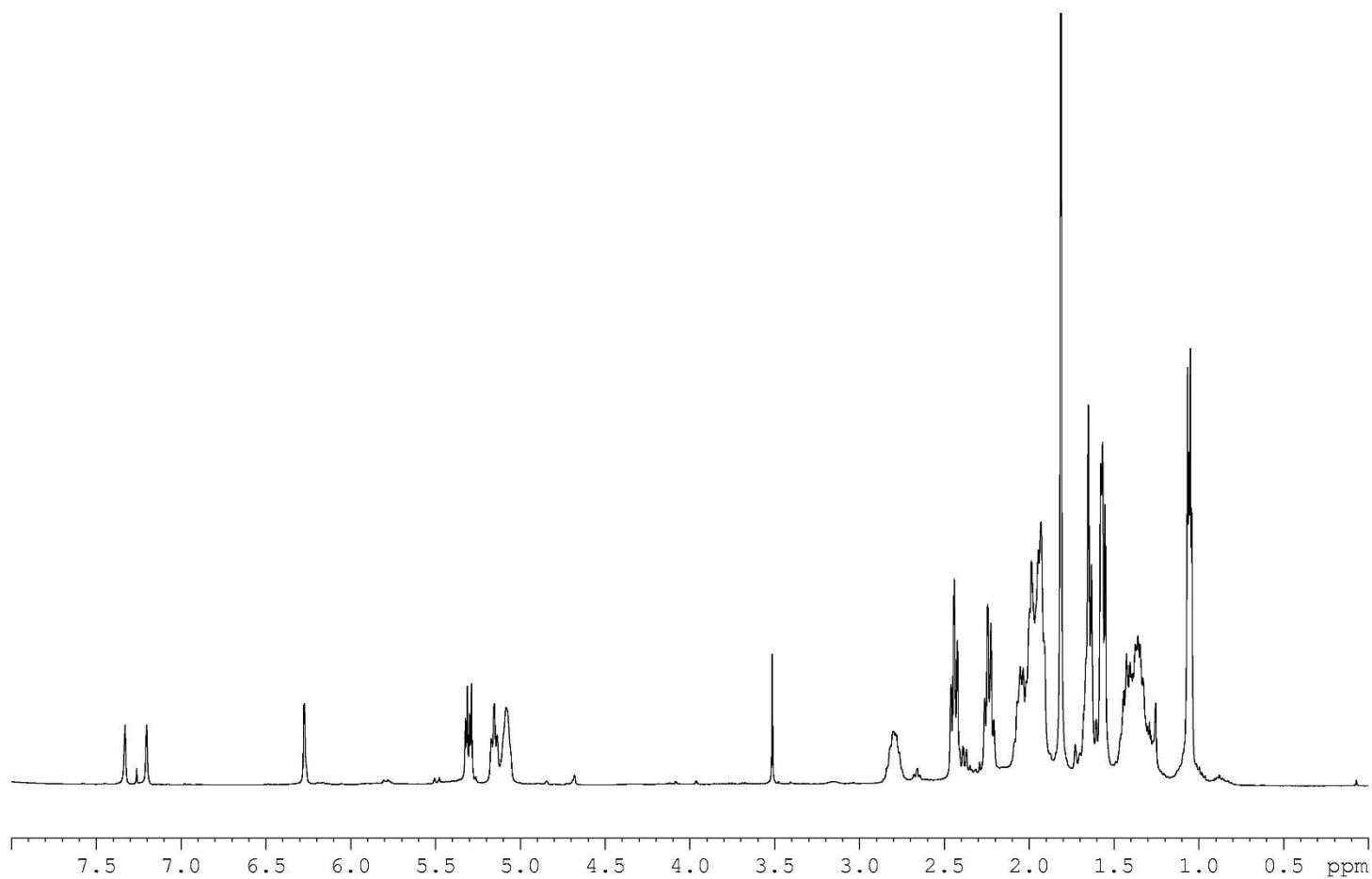
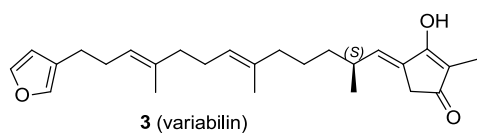


HSQC spectrum of sarcotinin A (**2**) from *S. fasciculatus* (CDCl₃, Bruker 400 MHz)

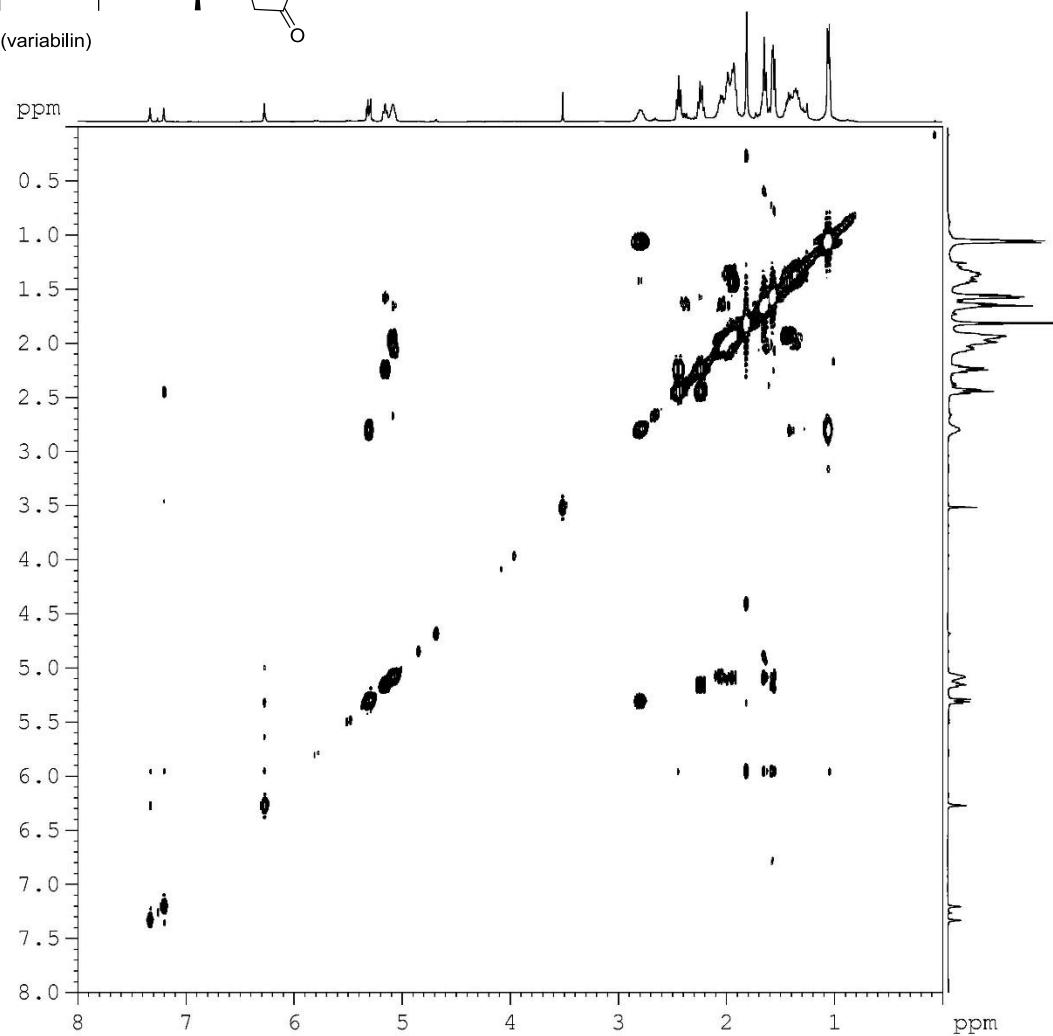
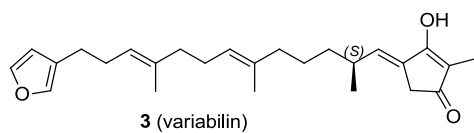


HMBC spectrum of sarcotin A (**2**) from *S. fasciculatus* (CDCl₃, *J* = 10Hz, Bruker 400 MHz)

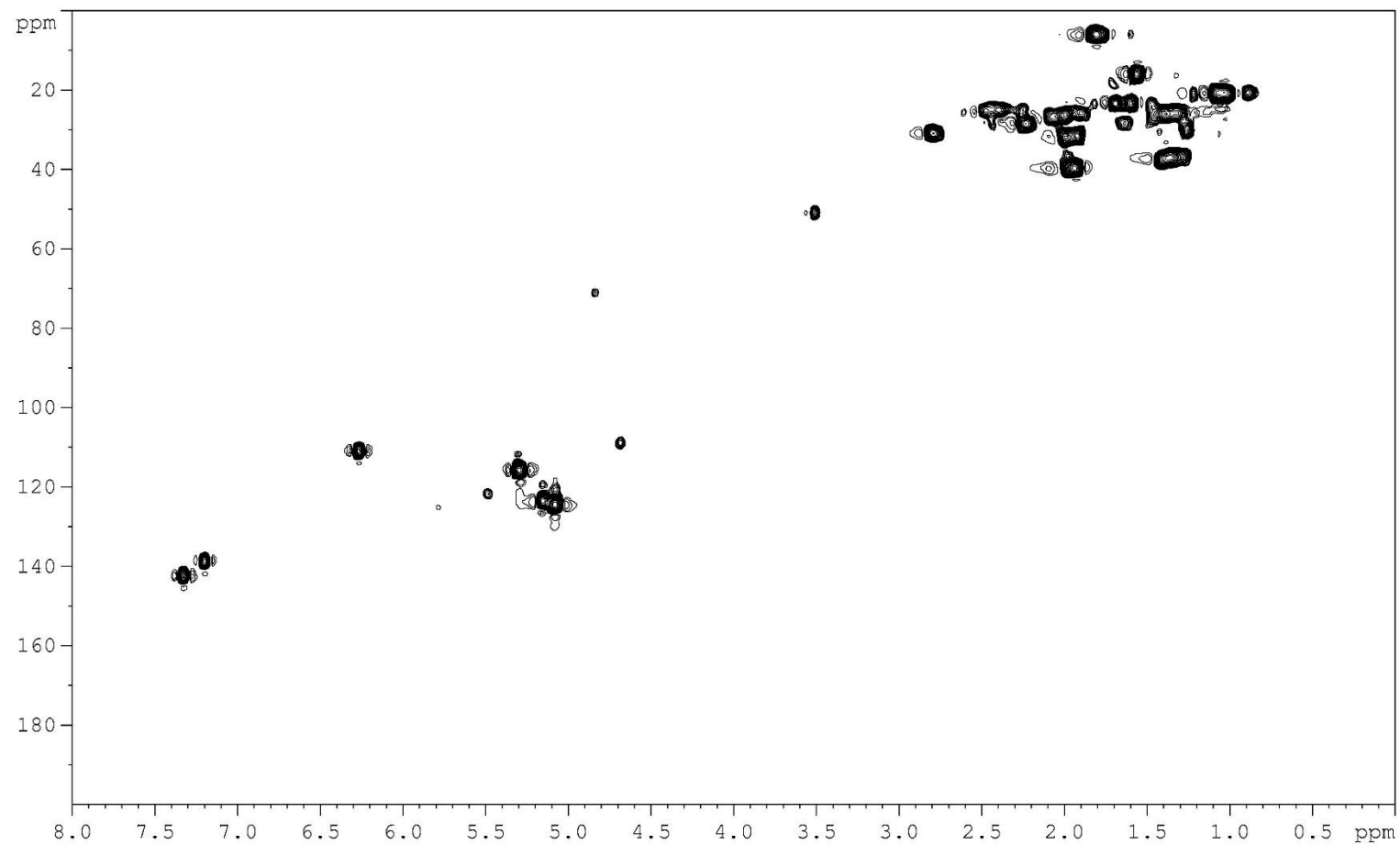
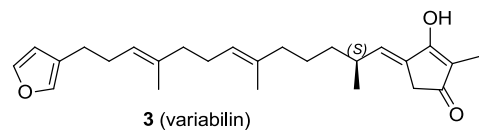
ESI-MS spectrum of sarcotin A (**2**) from *S. fasciculatus*



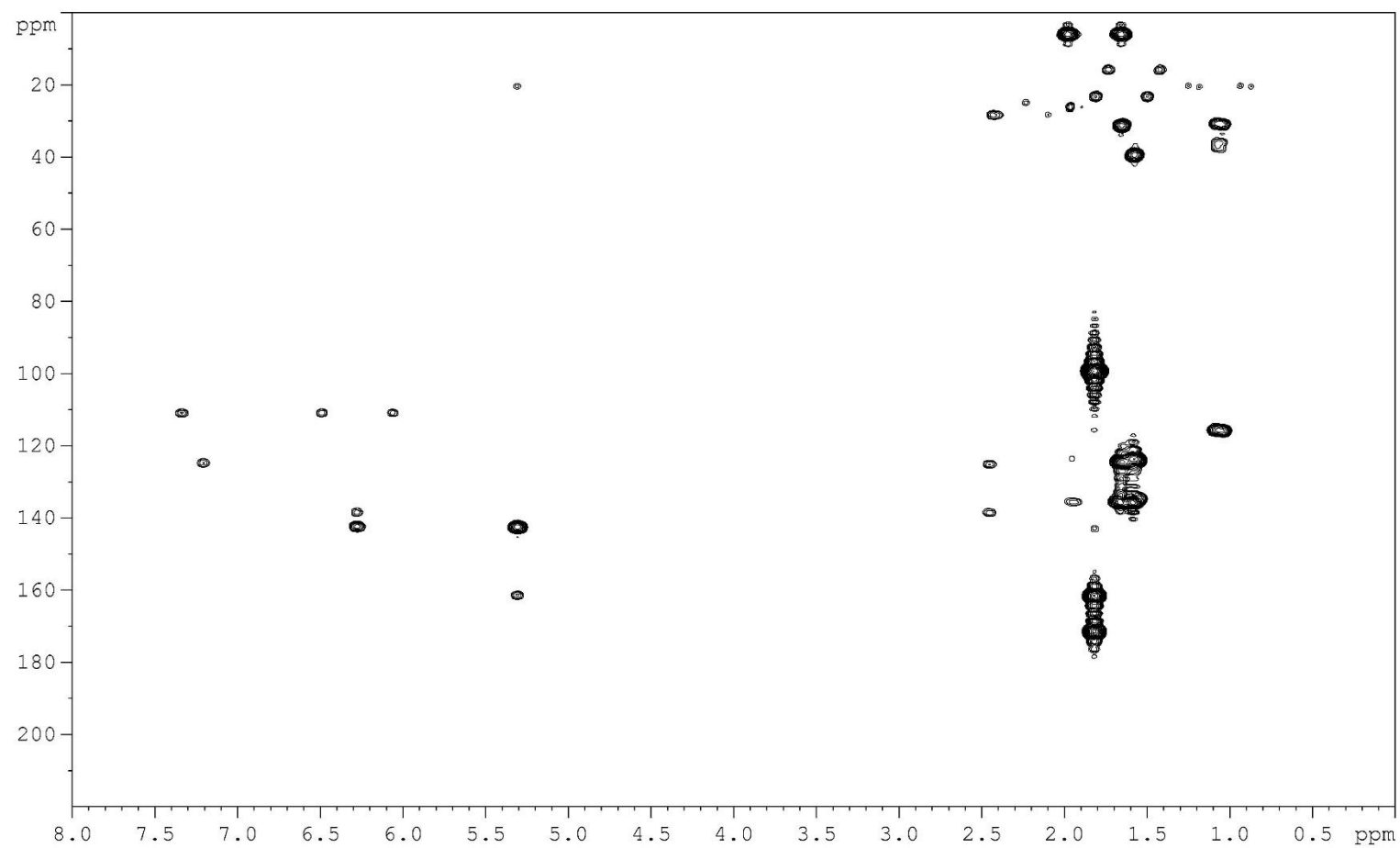
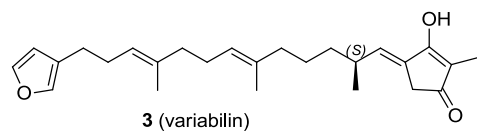
¹H NMR spectrum of variabilin (**3**) from *S. fasciculatus* (CDCl₃, Bruker 400 MHz)



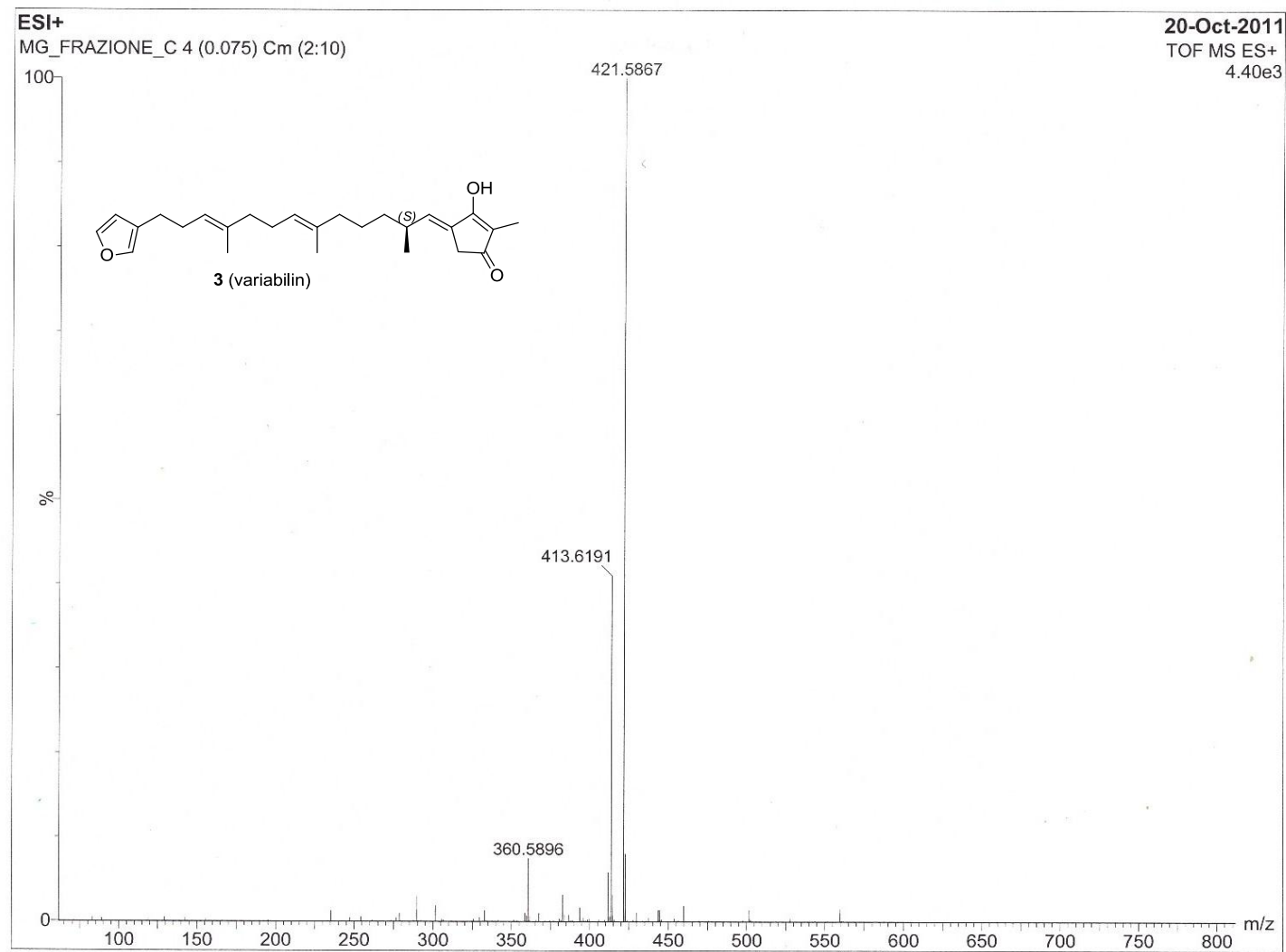
^1H - ^1H COSY spectrum of variabilin (**3**) from *S. fasciculatus* (CDCl_3 , Bruker 400 MHz)

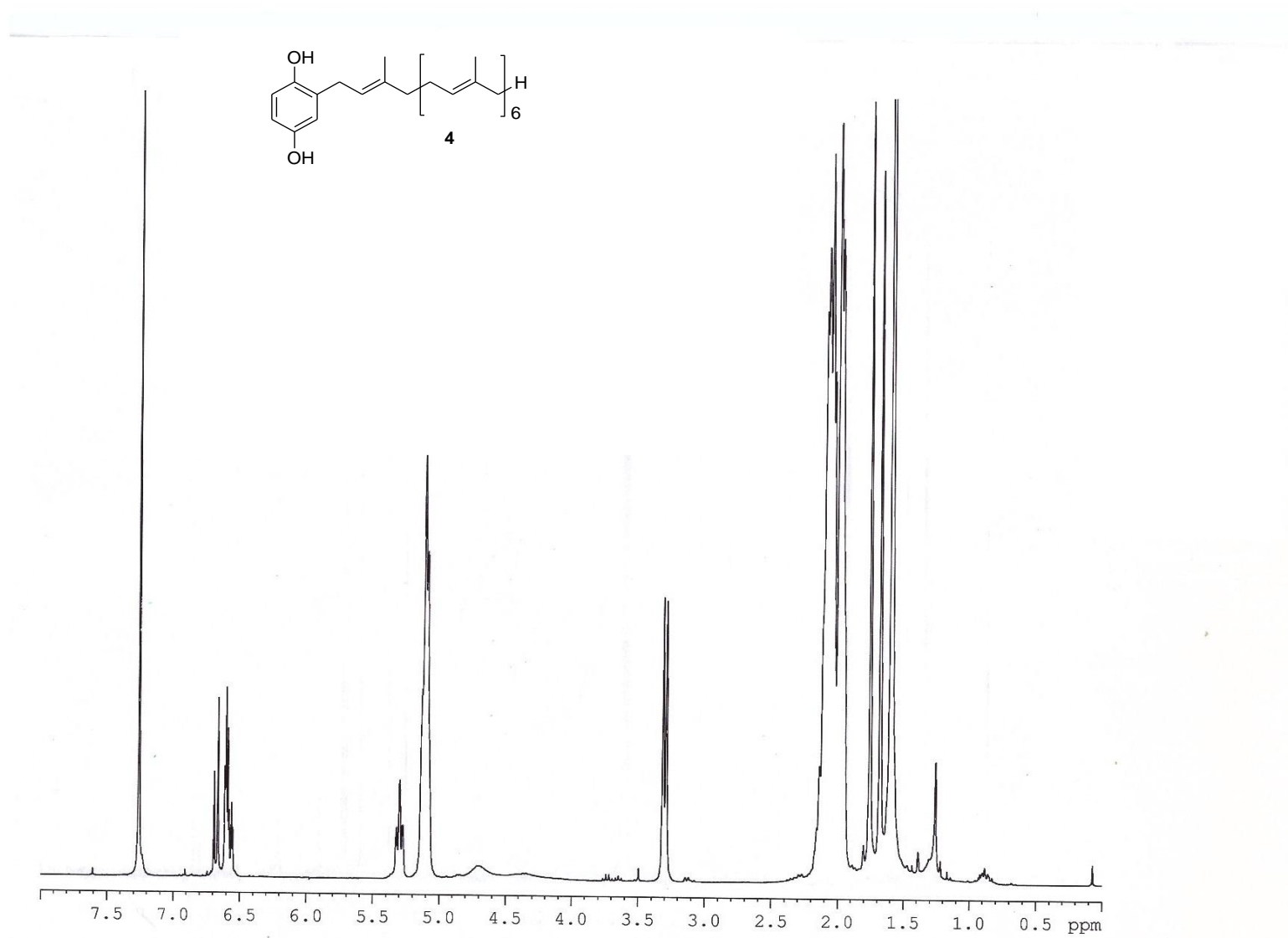


HSQC spectrum of variabilin (**3**) from *S. fasciculatus* (CDCl₃, Bruker 400 MHz)

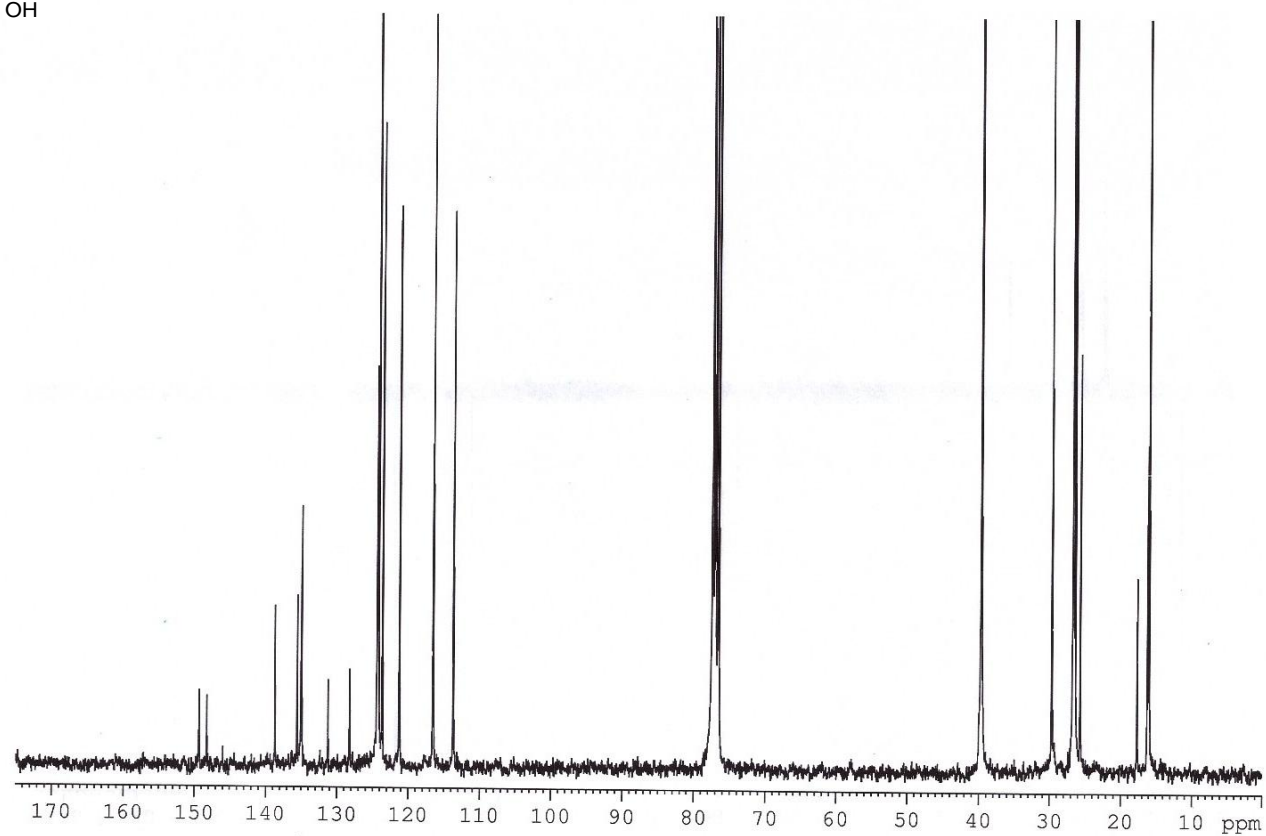
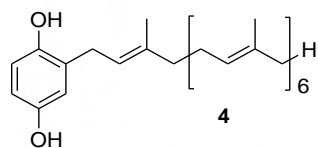


HMBC spectrum of variabilin (**3**) from *S. fasciculatus* (CDCl₃, $J = 10$ Hz) Bruker 400 MHz)

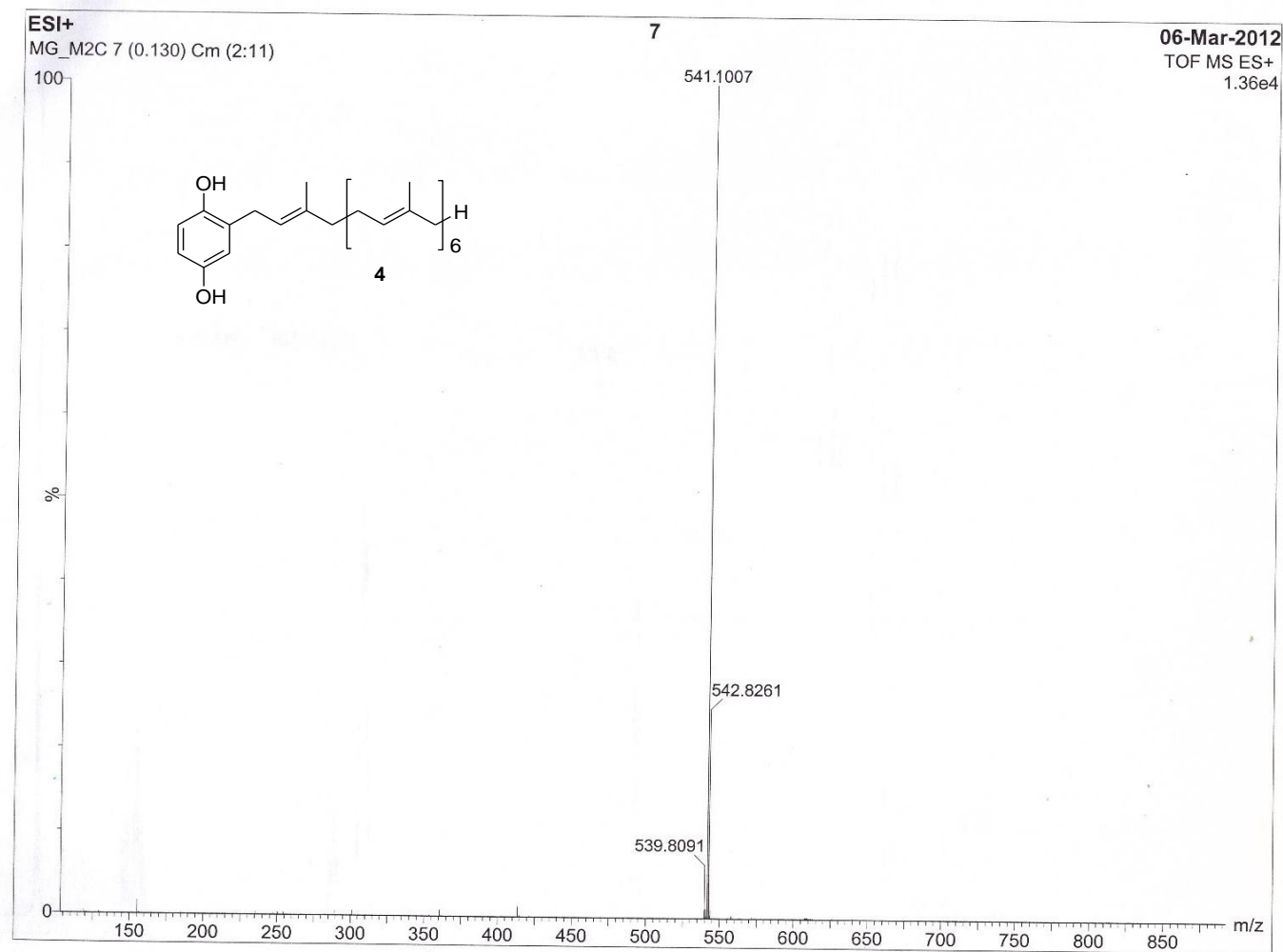
ESI MS spectrum of variabilin (**3**) from *S. fasciculatus*

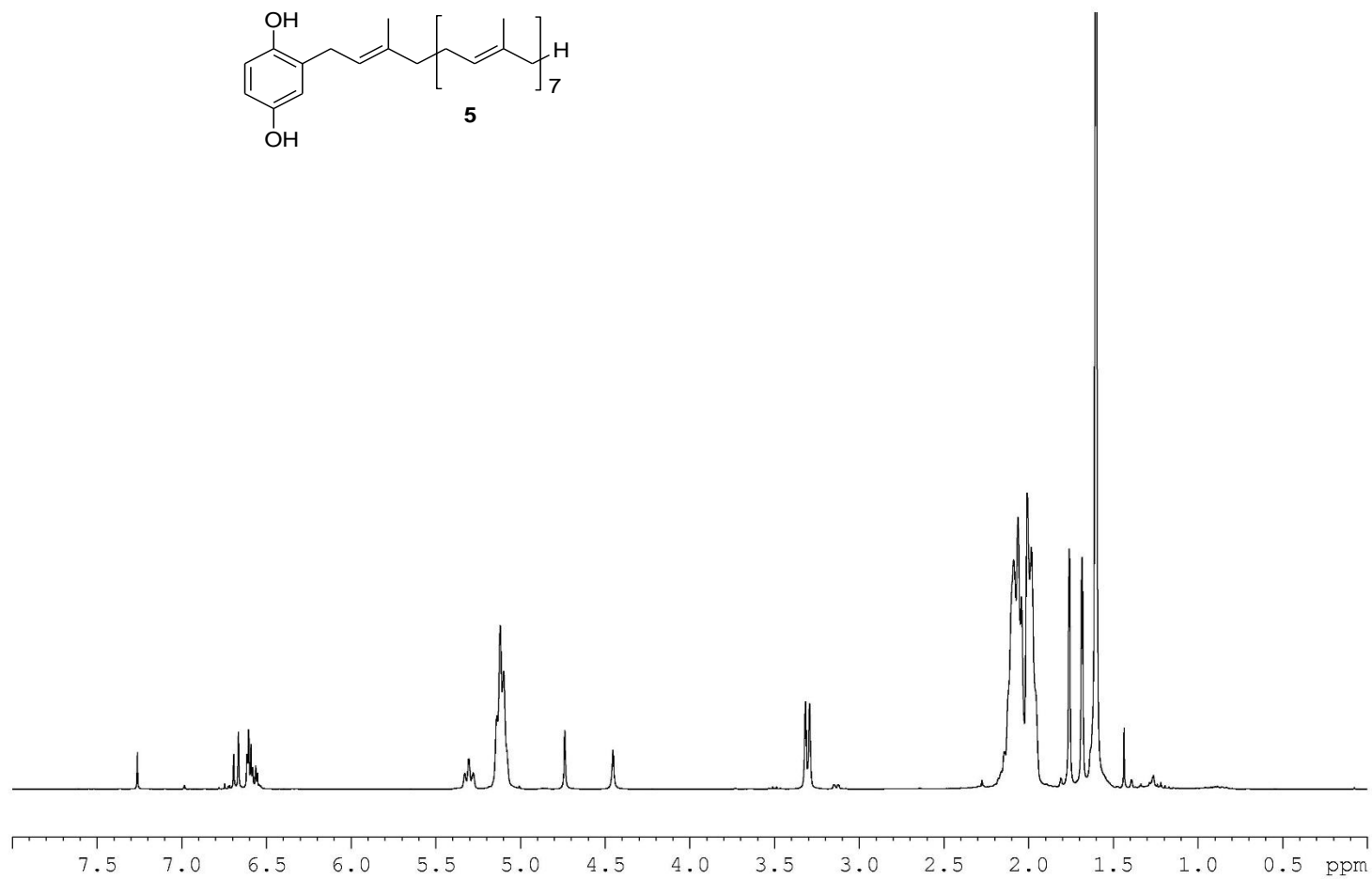
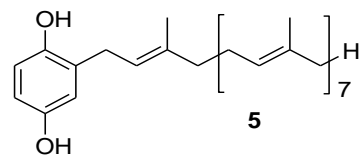


^1H NMR spectrum of compound **4** from *S. spinosulus* (CDCl₃, Bruker 300 MHz)

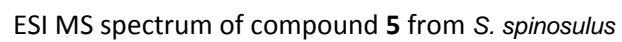


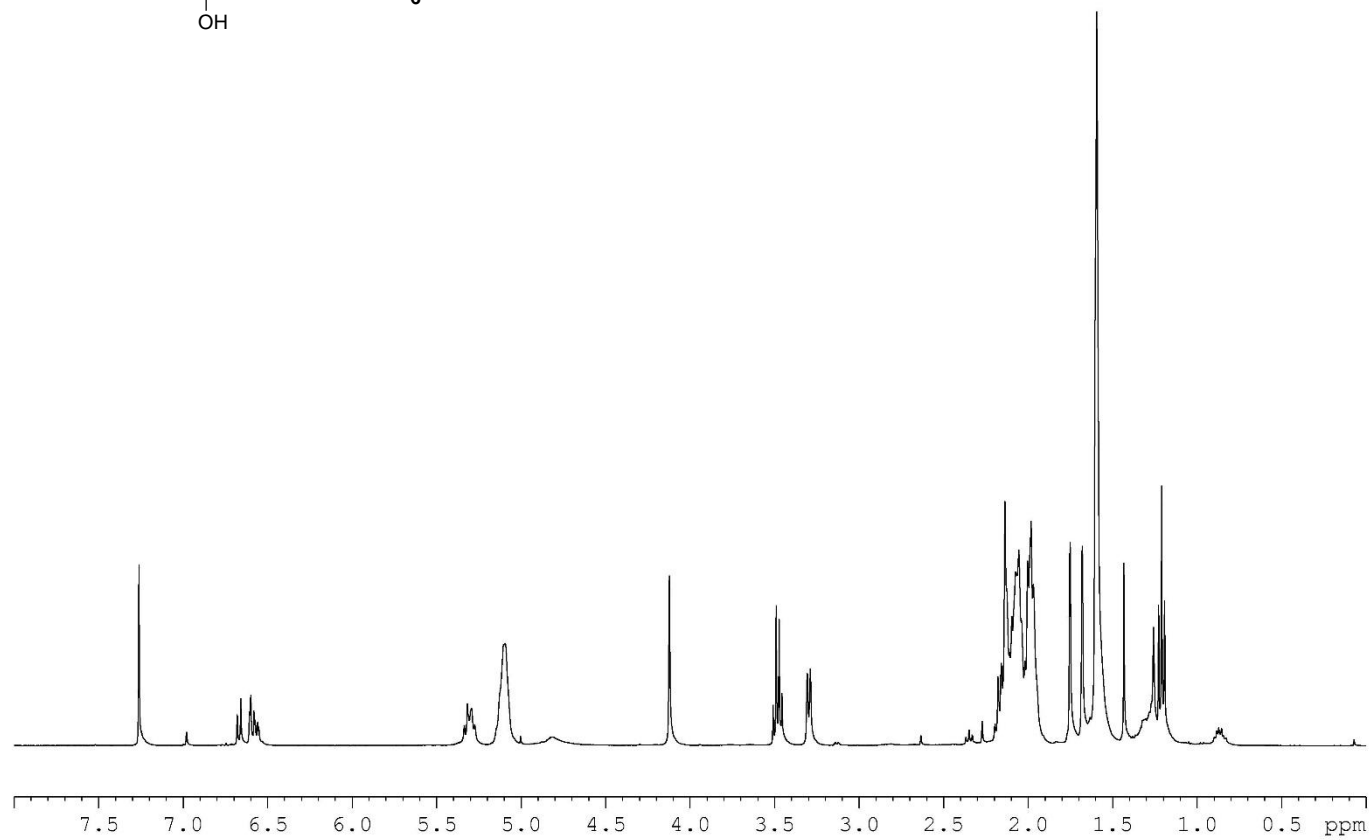
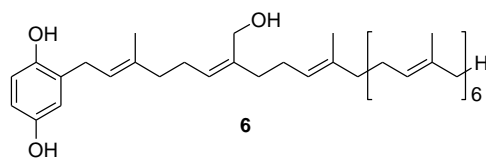
^{13}C NMR spectrum of compound **4** from *S. spinosulus* (CDCl₃, Bruker 300 MHz)

ESI MS spectrum of compound **4** from *S. spinosulus*



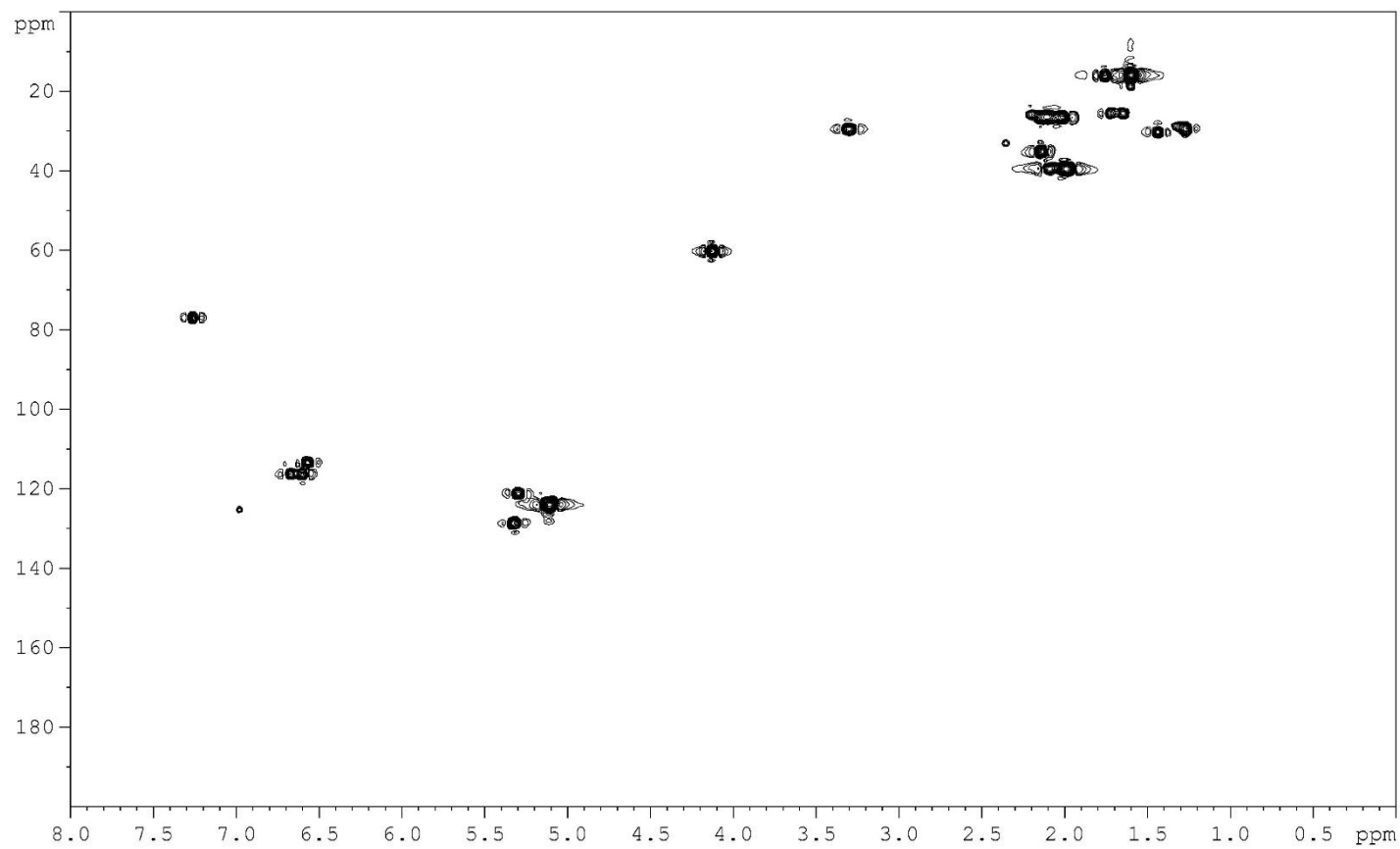
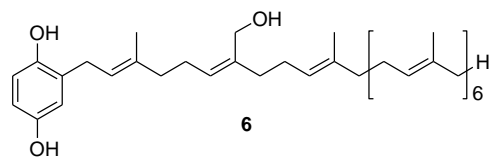
^1H NMR spectrum of compound **5** from *S. spinosulus* (CDCl_3 , Bruker 400 MHz)



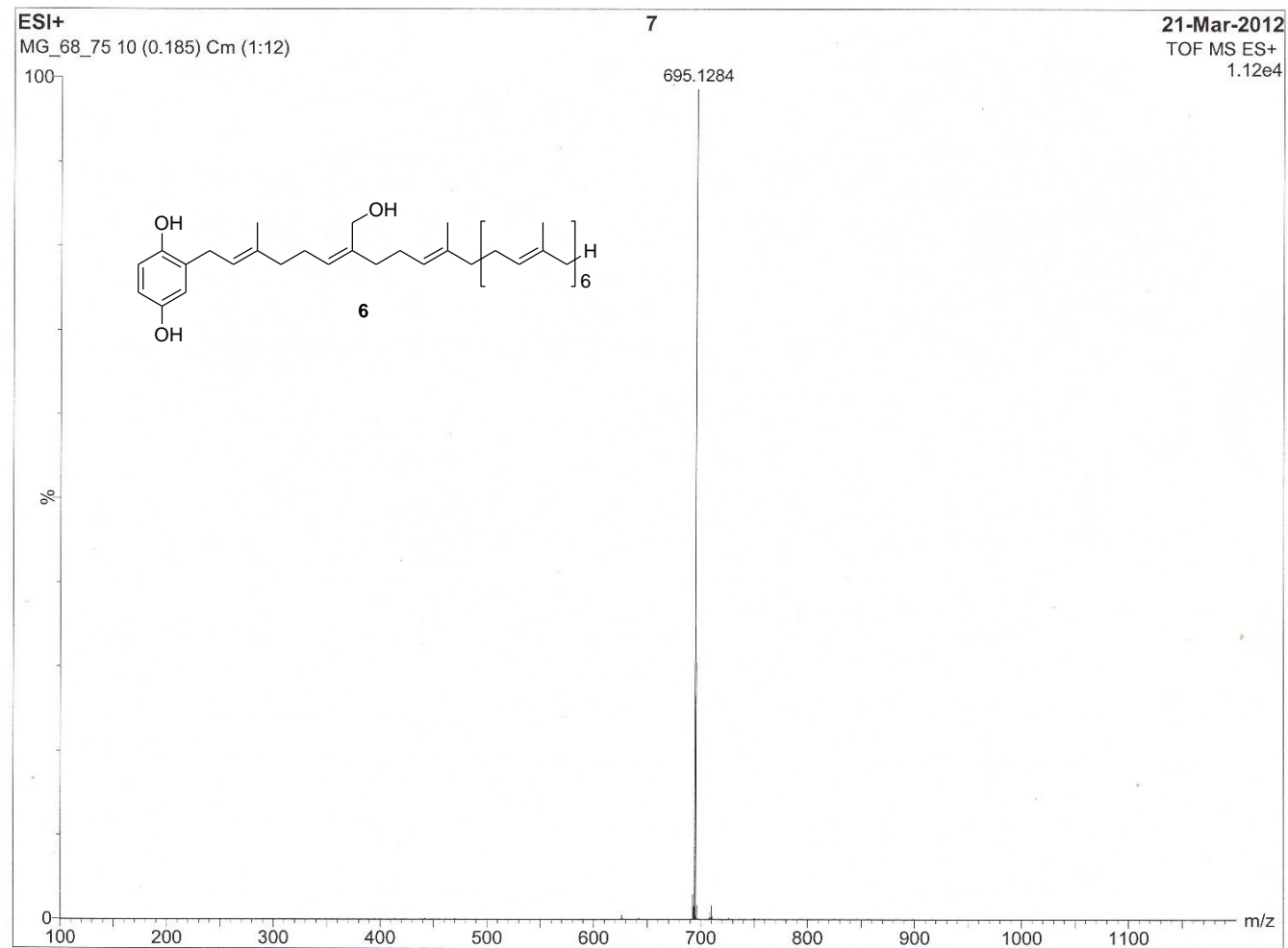


¹H NMR spectrum of compound **6** from *S. foetidus* (CDCl₃, Bruker 400 MHz)

S22



HSQC spectrum of compound **6** from *S. foetidus* (CDCl₃, Bruker 400 MHz)

ESI MS spectrum of compound **6** *S. foetidus*