

Supporting Information Available

Cytotoxic Cytochalasans from Cultures of the Fungus

***Metarhizium brunneum* TBRC-BCC 79240**

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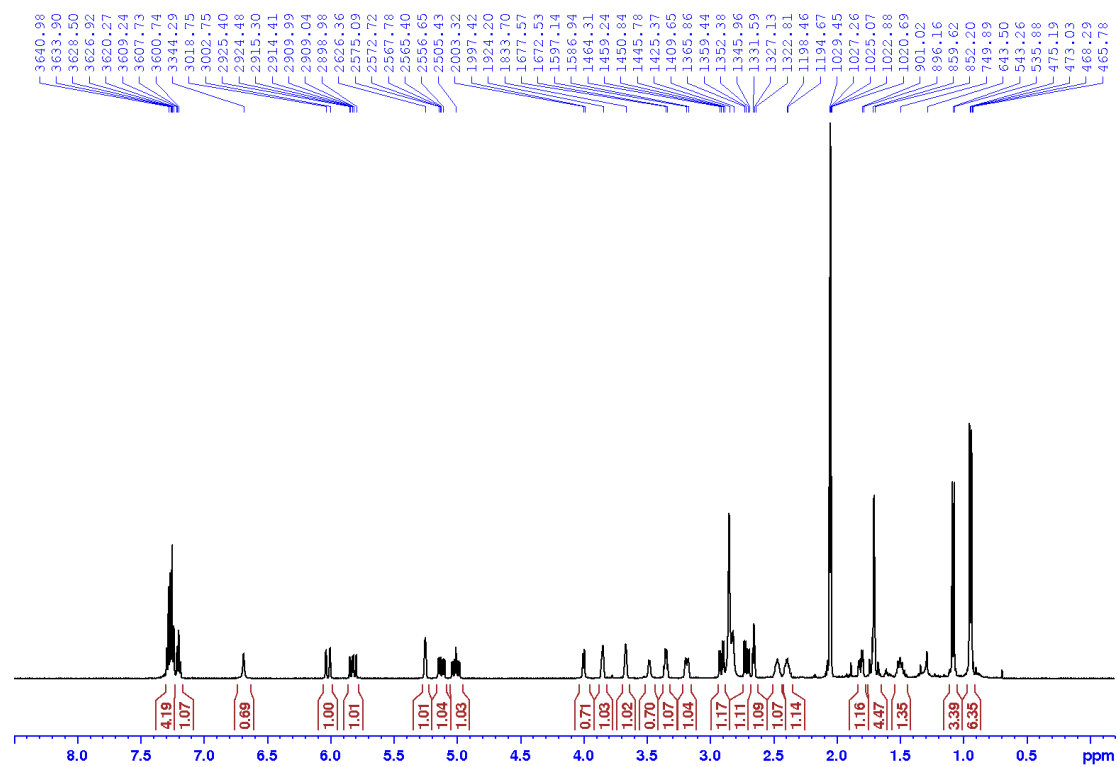


Figure S1. ^1H NMR spectrum of compound **1** in Acetone- d_6

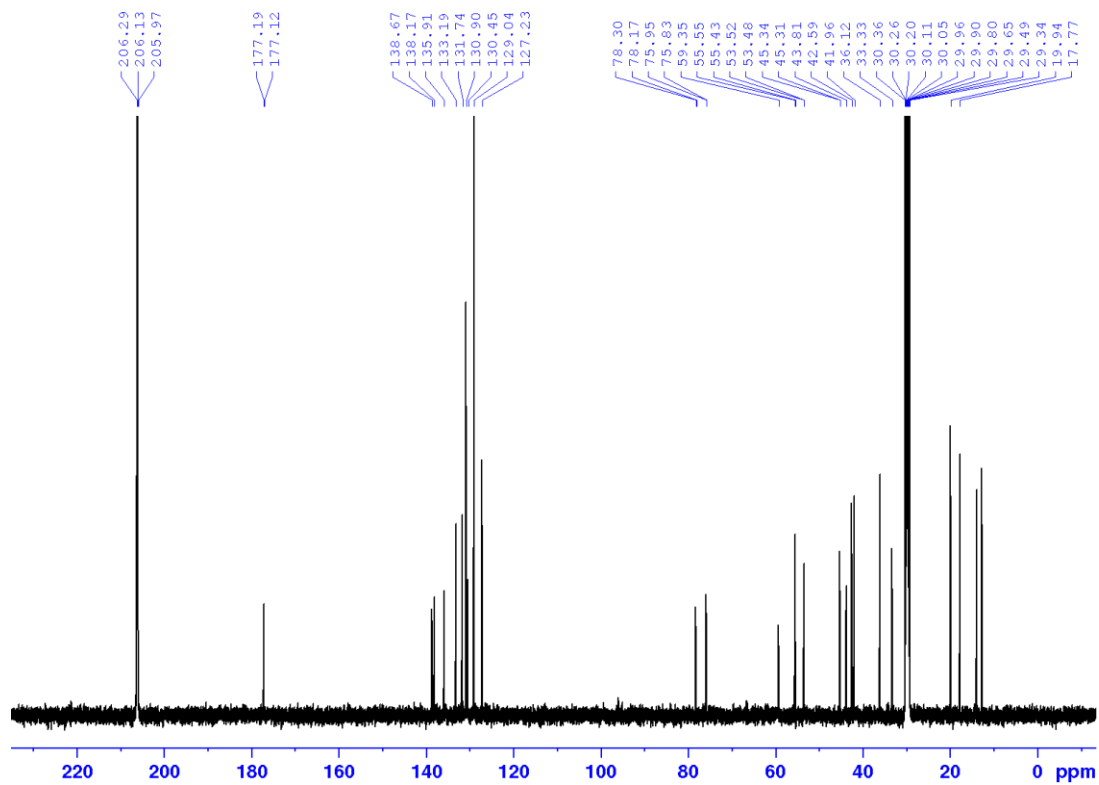


Figure S2. ^{13}C NMR spectrum of compound **1** in Acetone- d_6

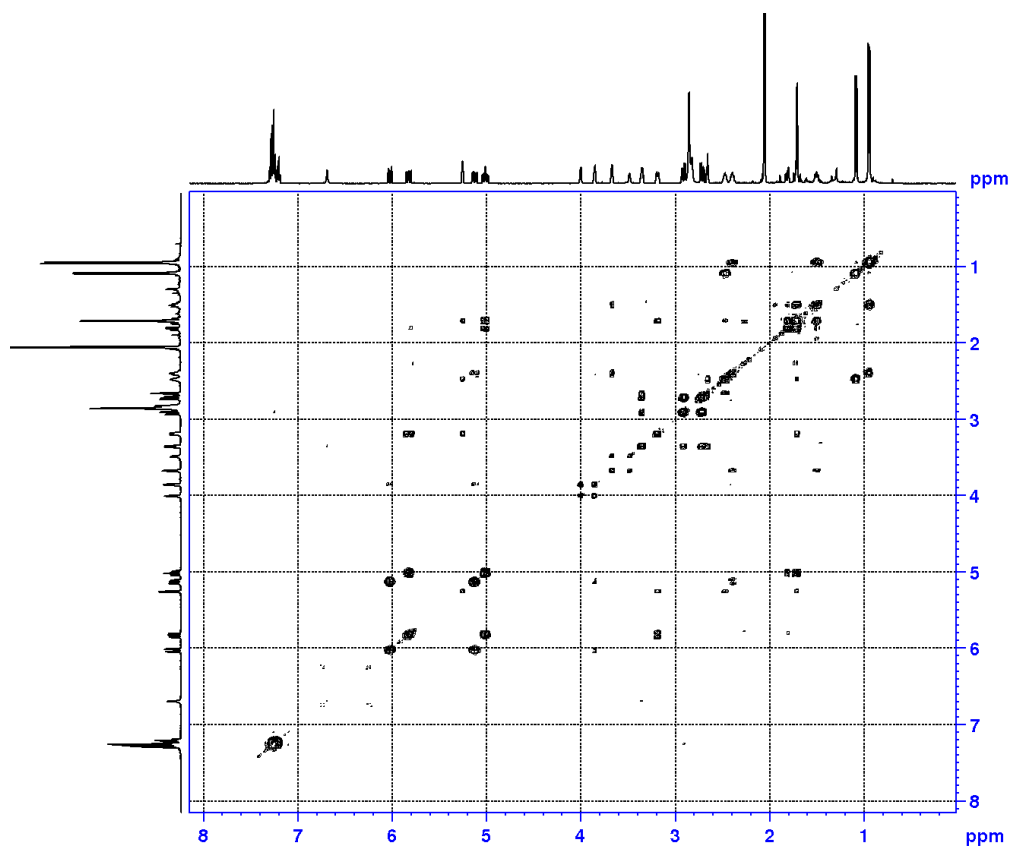


Figure S3. COSY spectrum of compound **1** in Acetone- d_6

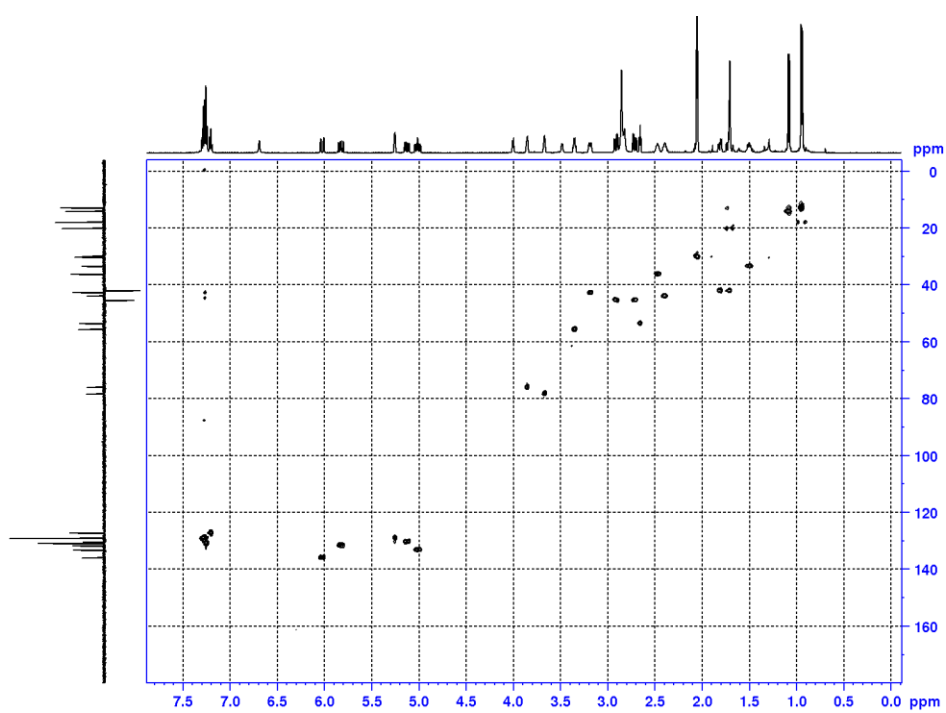


Figure S4. HSQC spectrum of compound **1** in Acetone- d_6

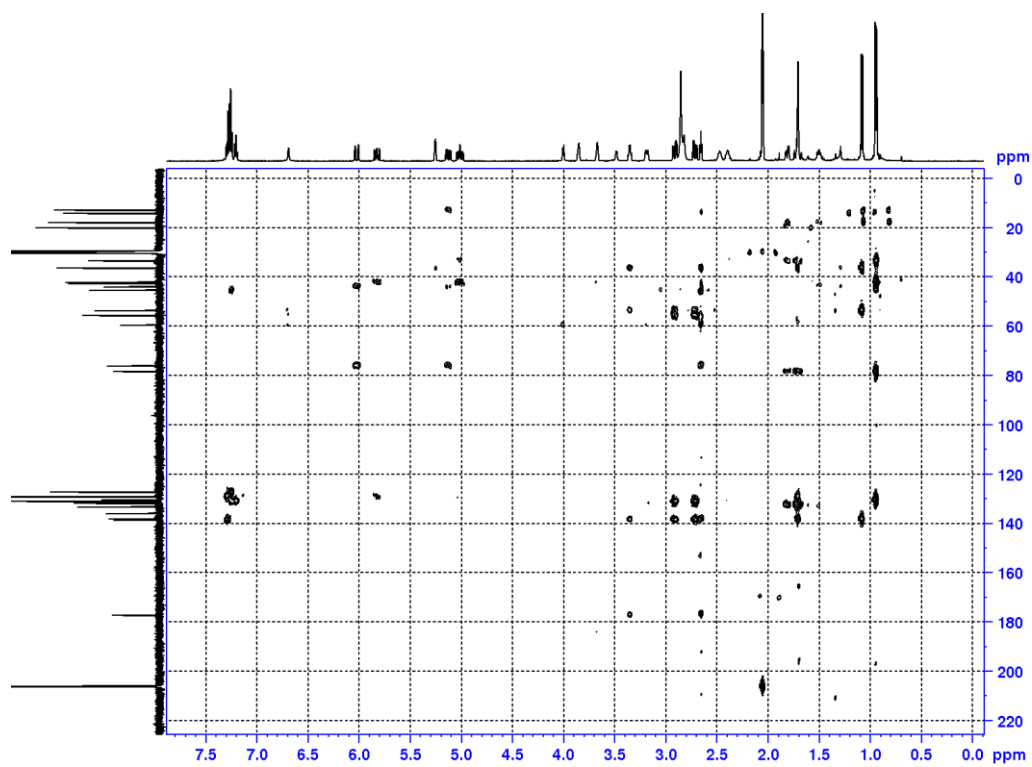


Figure S5. HMBC spectrum of compound **1** in Acetone- d_6

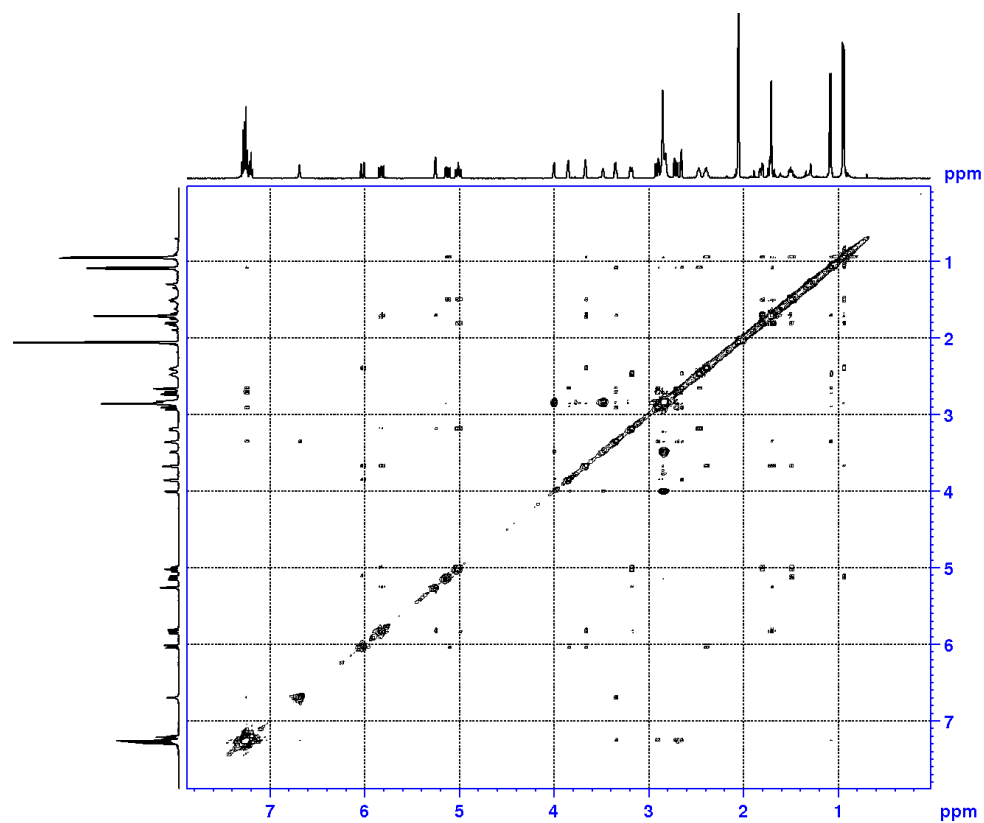


Figure S6. NOESY spectrum of compound **1** in Acetone- d_6

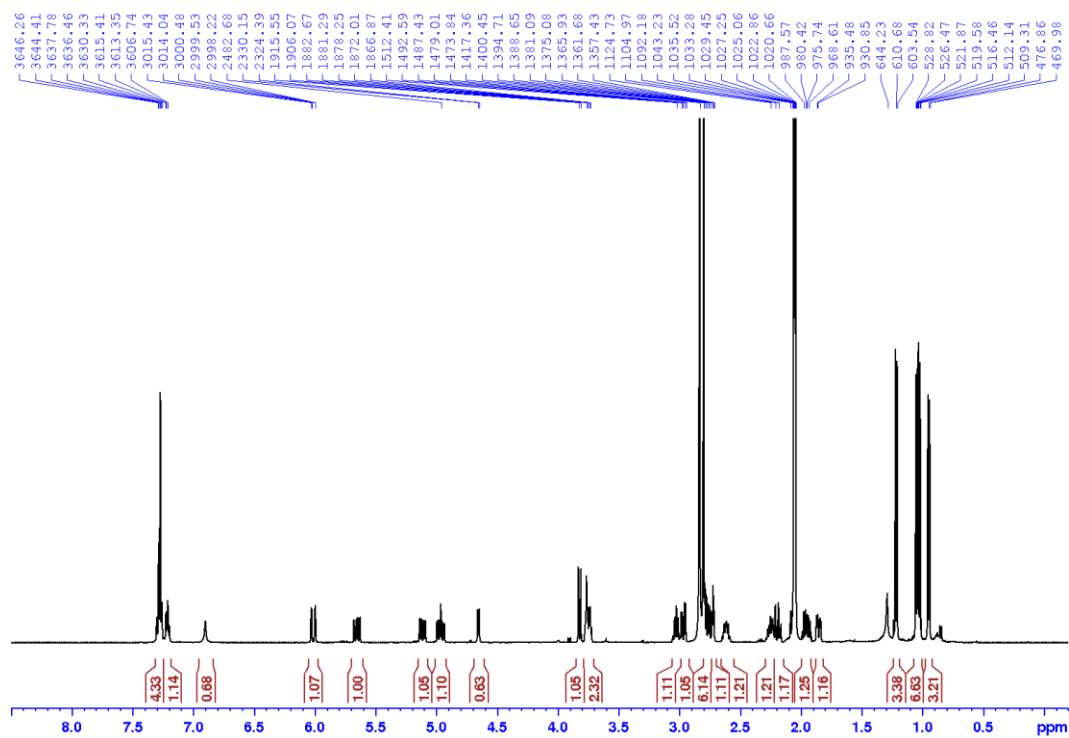


Figure S7. ^1H NMR spectrum of compound **2** in Acetone- d_6

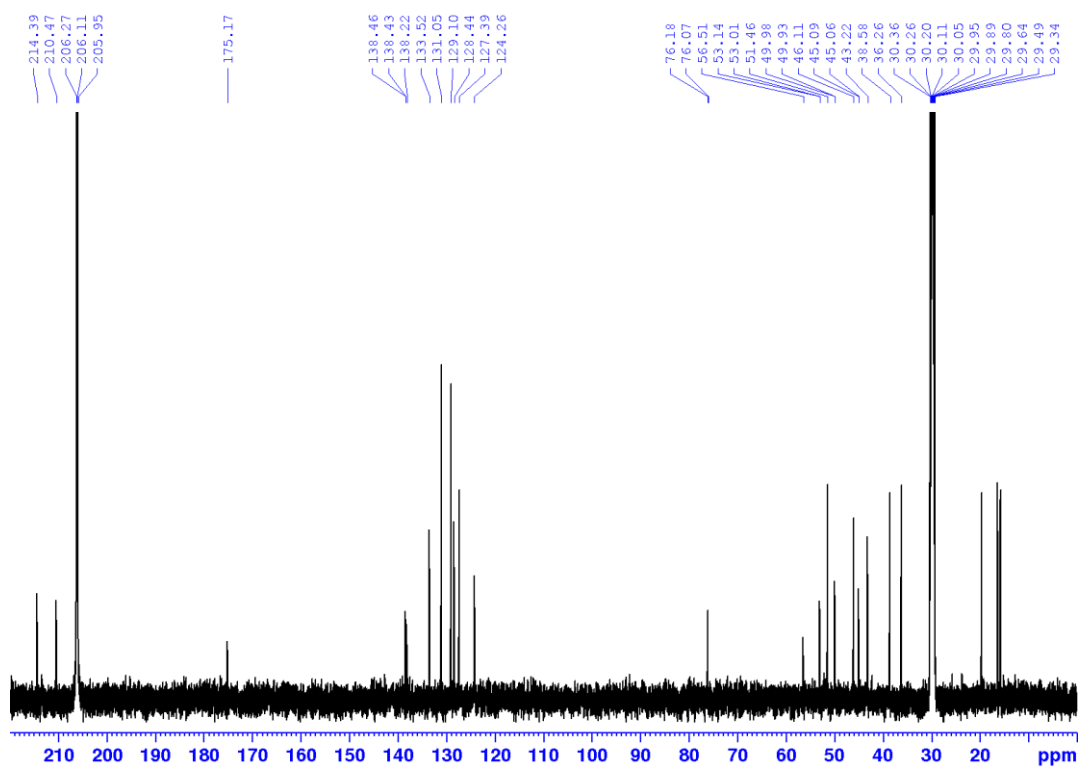


Figure S8. ^{13}C NMR spectrum of compound **2** in Acetone- d_6

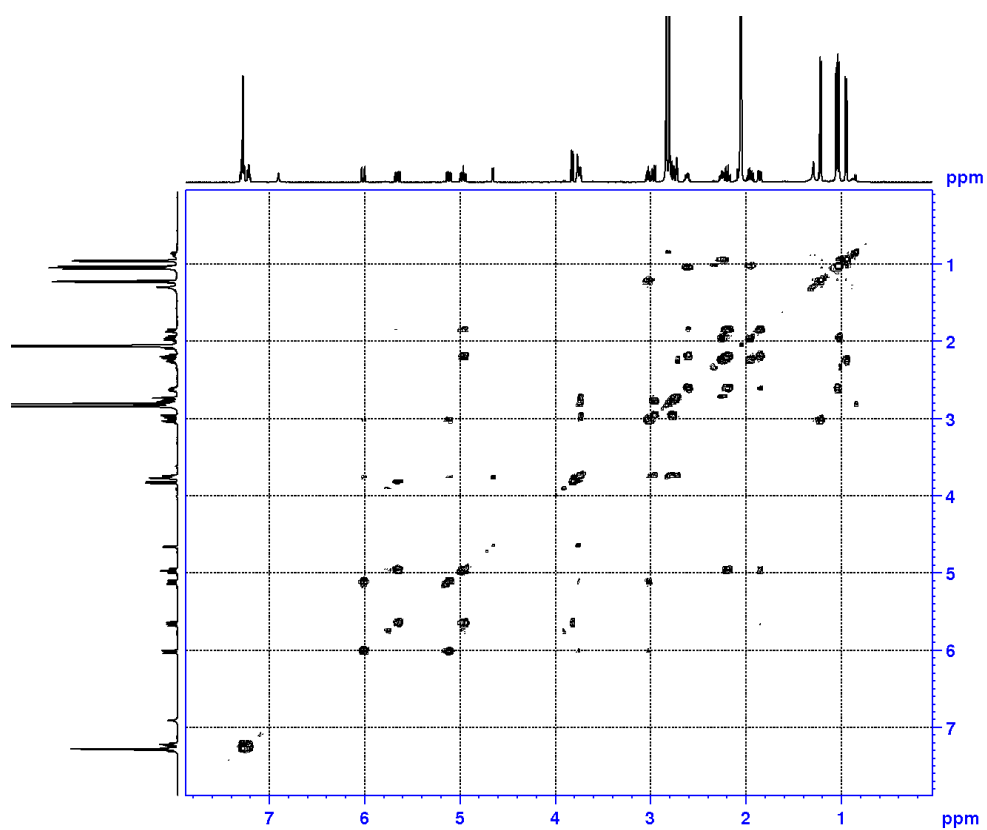


Figure S9. COSY spectrum of compound **2** in Acetone- d_6

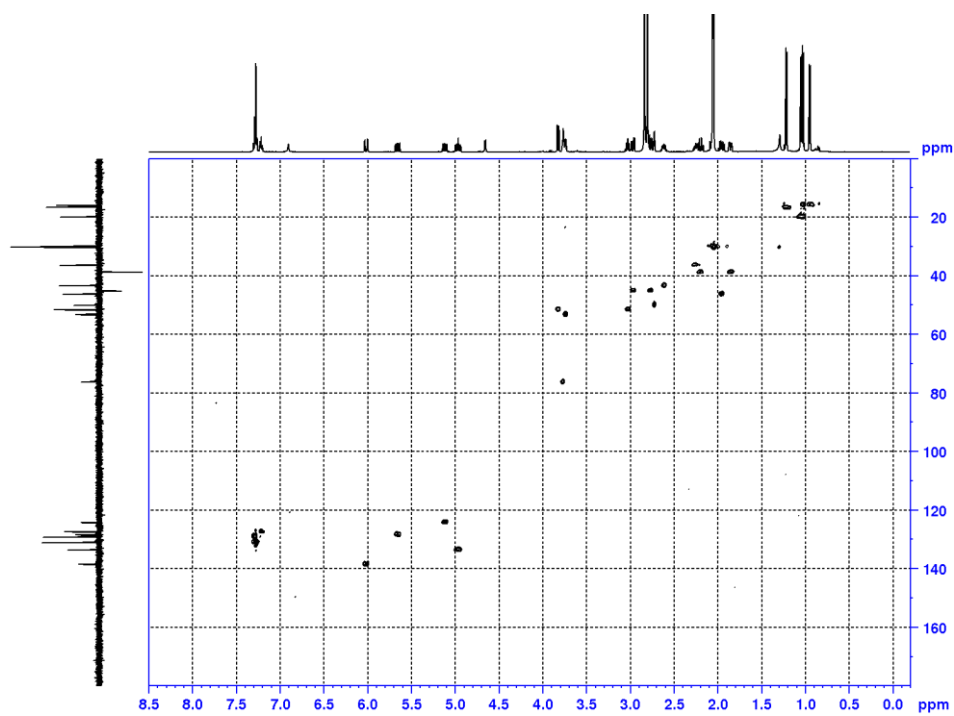


Figure S10. HSQC spectrum of compound **2** in Acetone- d_6

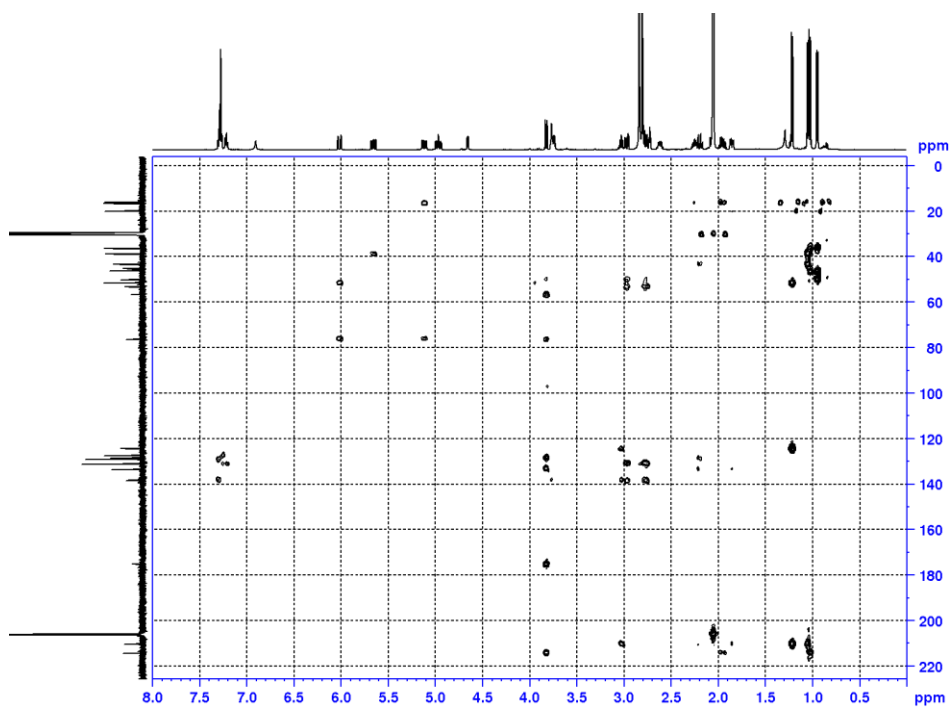


Figure S11. HMBC spectrum of compound **2** in Acetone-*d*₆

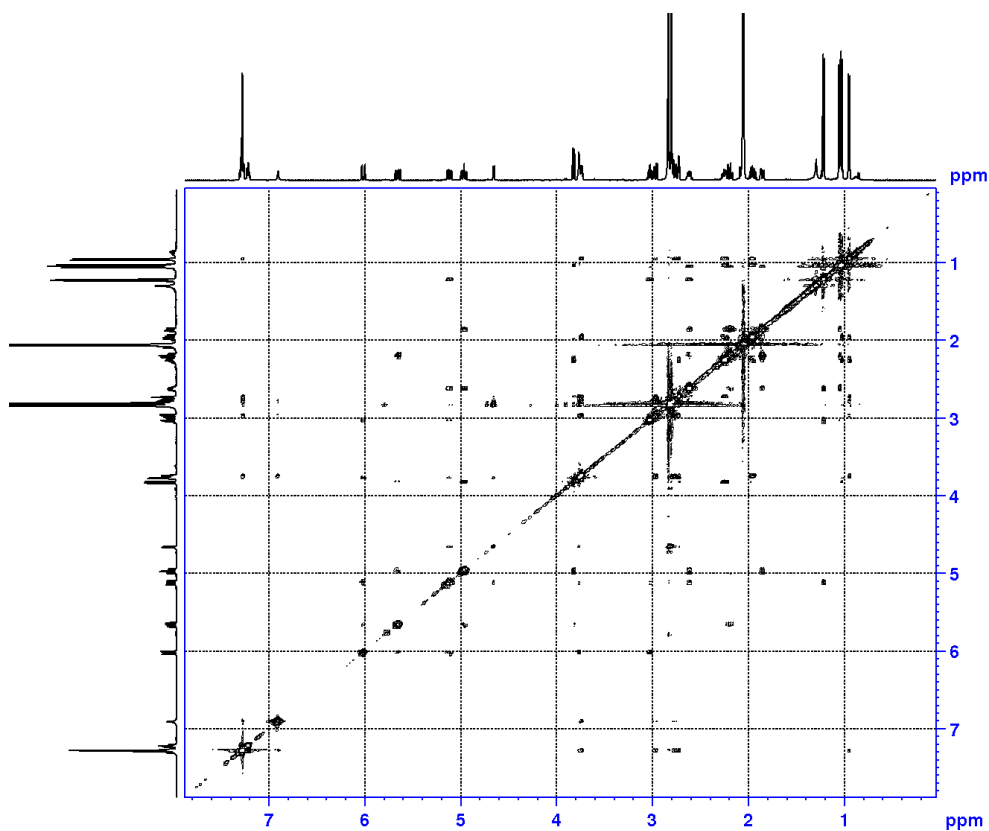


Figure S12. NOESY spectrum of compound **2** in Acetone-*d*₆

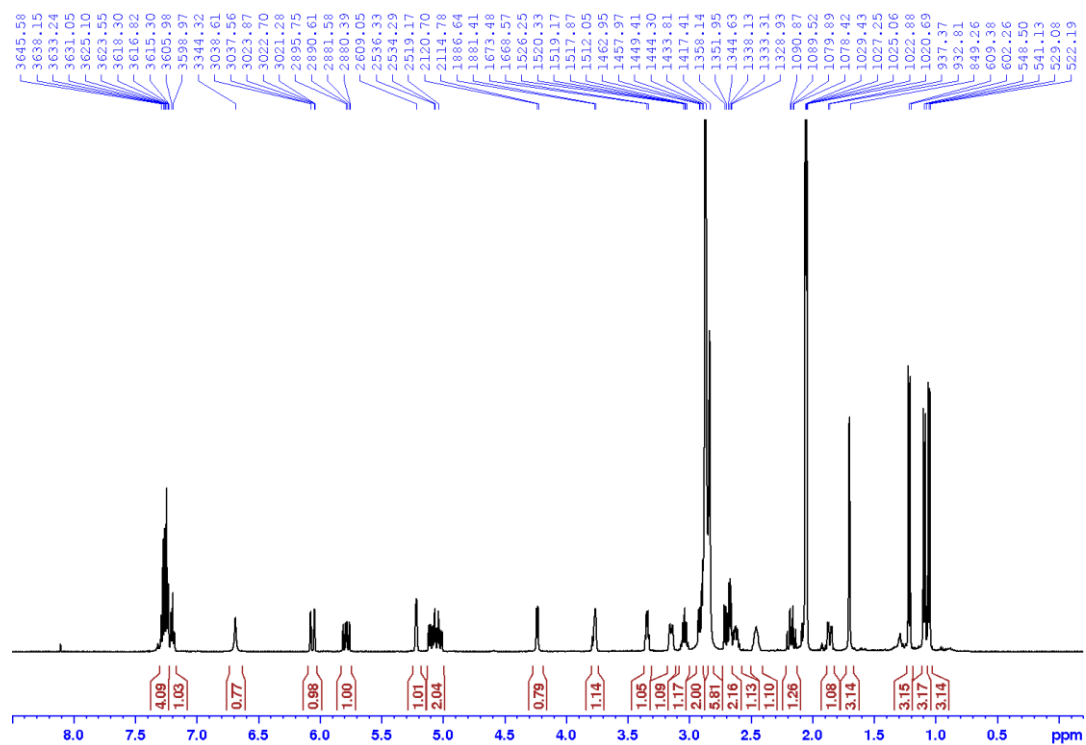


Figure S13. ^1H NMR spectrum of compound **3** in Acetone- d_6

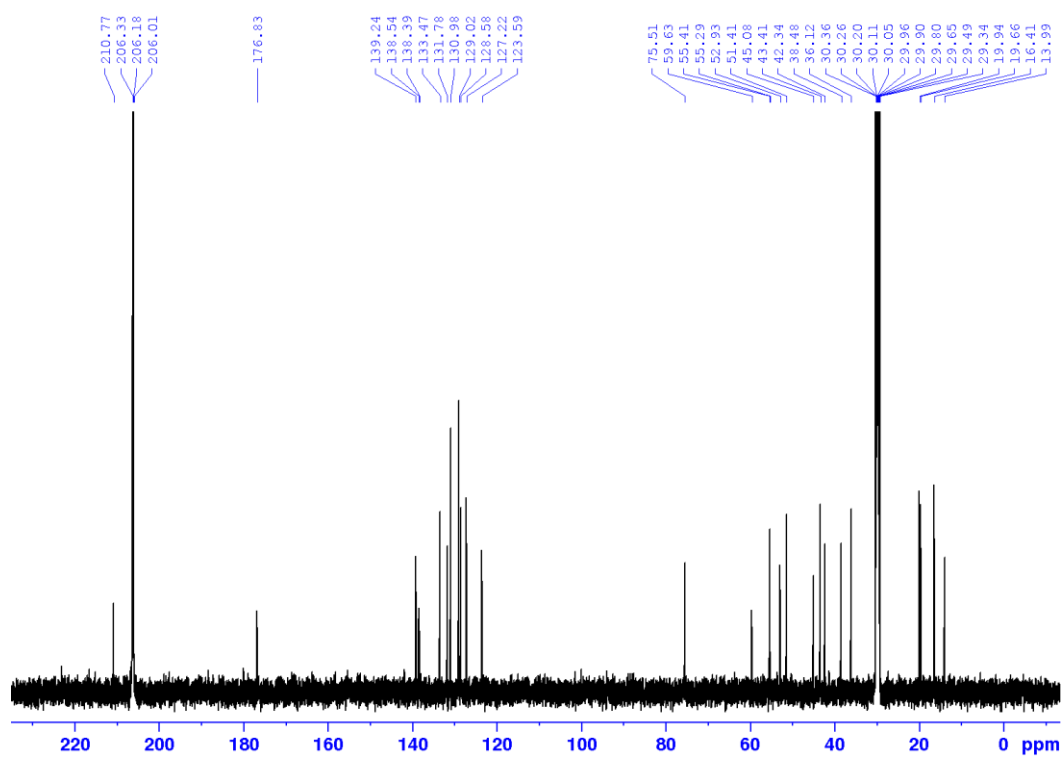


Figure S14. ^{13}C NMR spectrum of compound **3** in Acetone- d_6

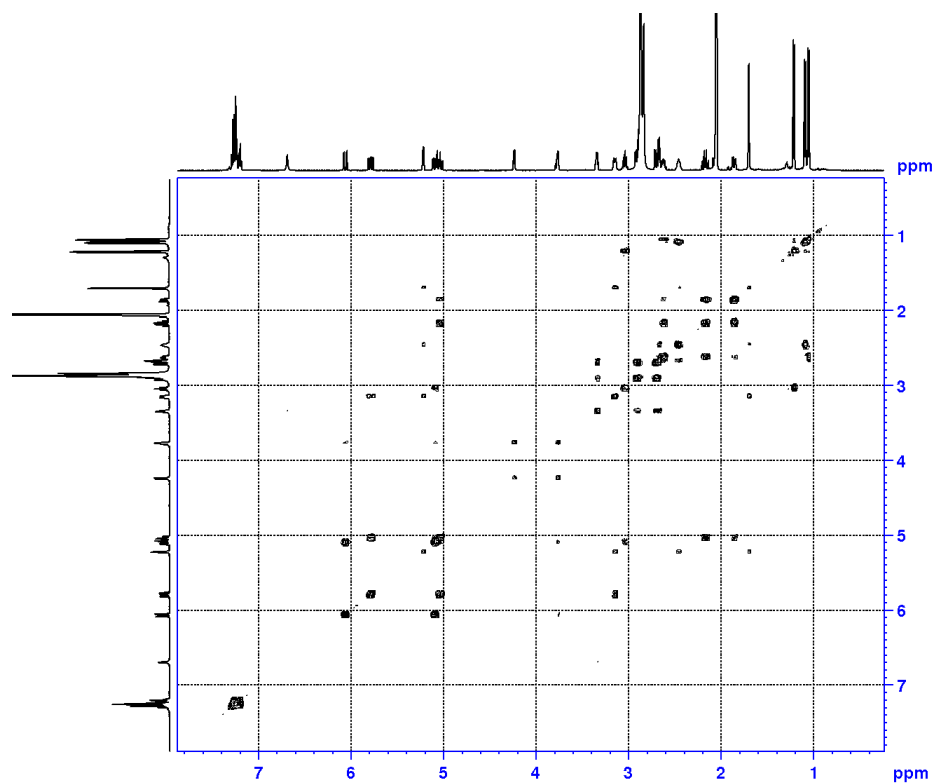


Figure S15. COSY spectrum of compound **3** in Acetone- d_6

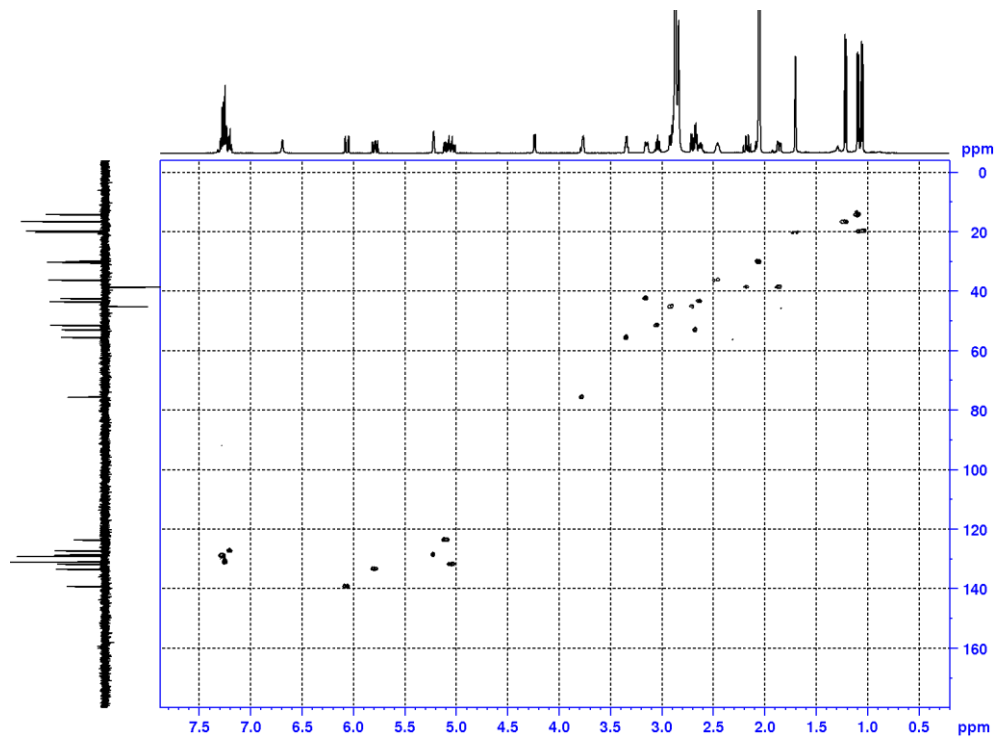


Figure S17. HSQC spectrum of compound **3** in Acetone- d_6

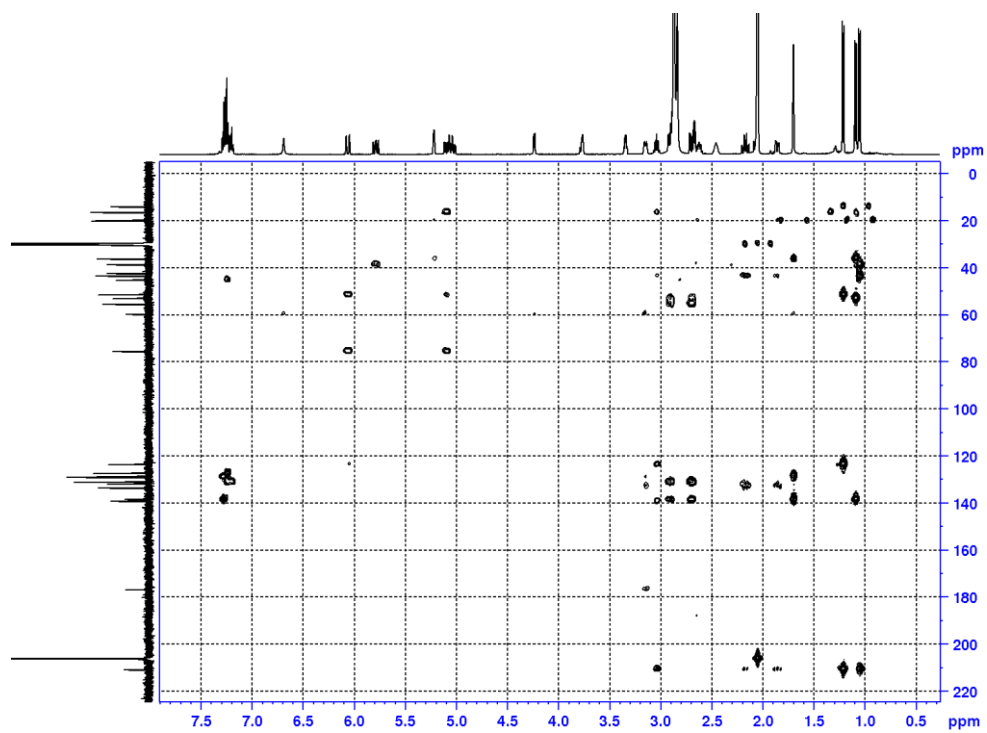


Figure S17. HMBC spectrum of compound **3** in Acetone- d_6

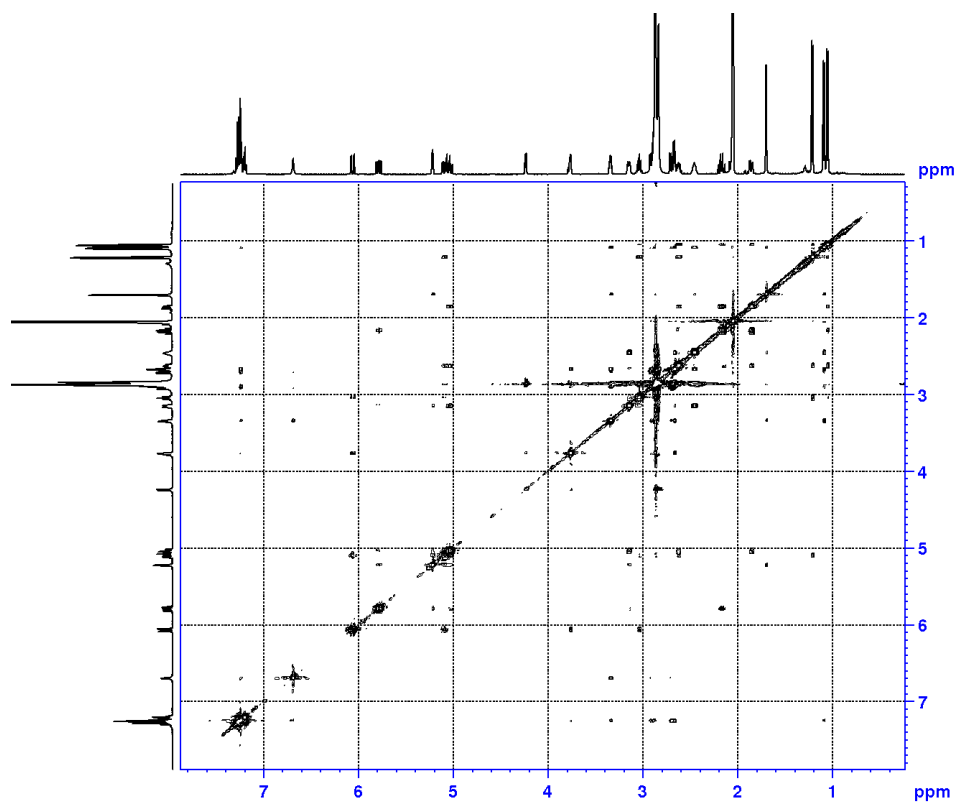


Figure S18. NOESY spectrum of compound **3** in Acetone- d_6

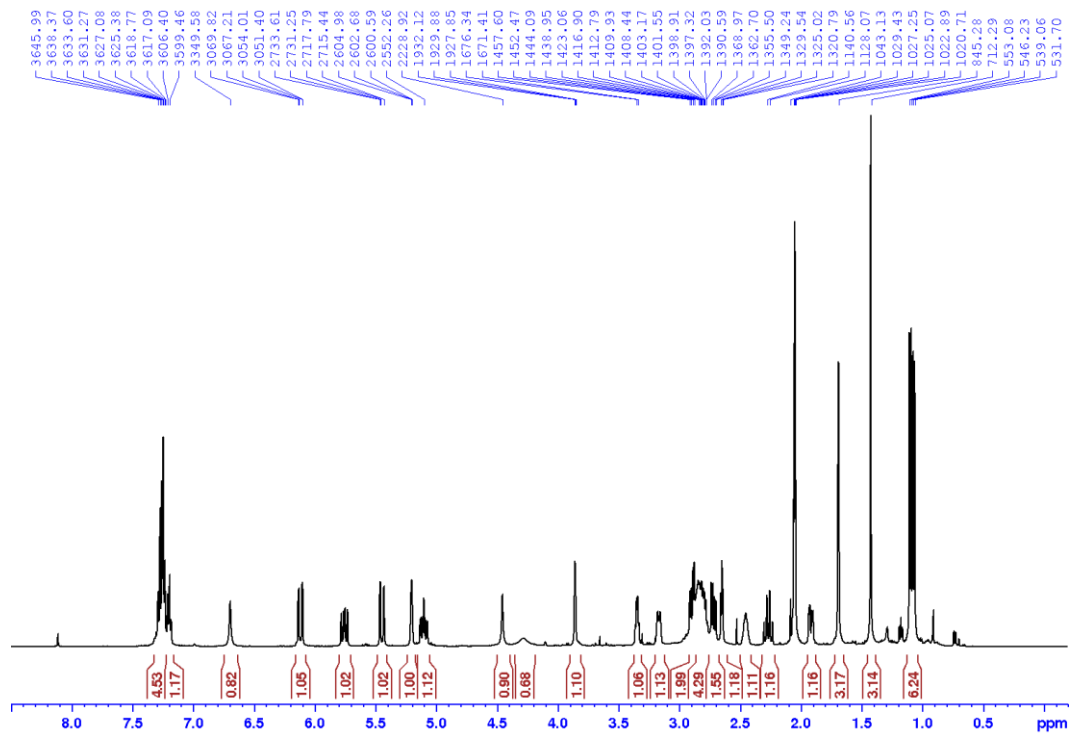


Figure S19. ^1H NMR spectrum of compound **4** in Acetone- d_6

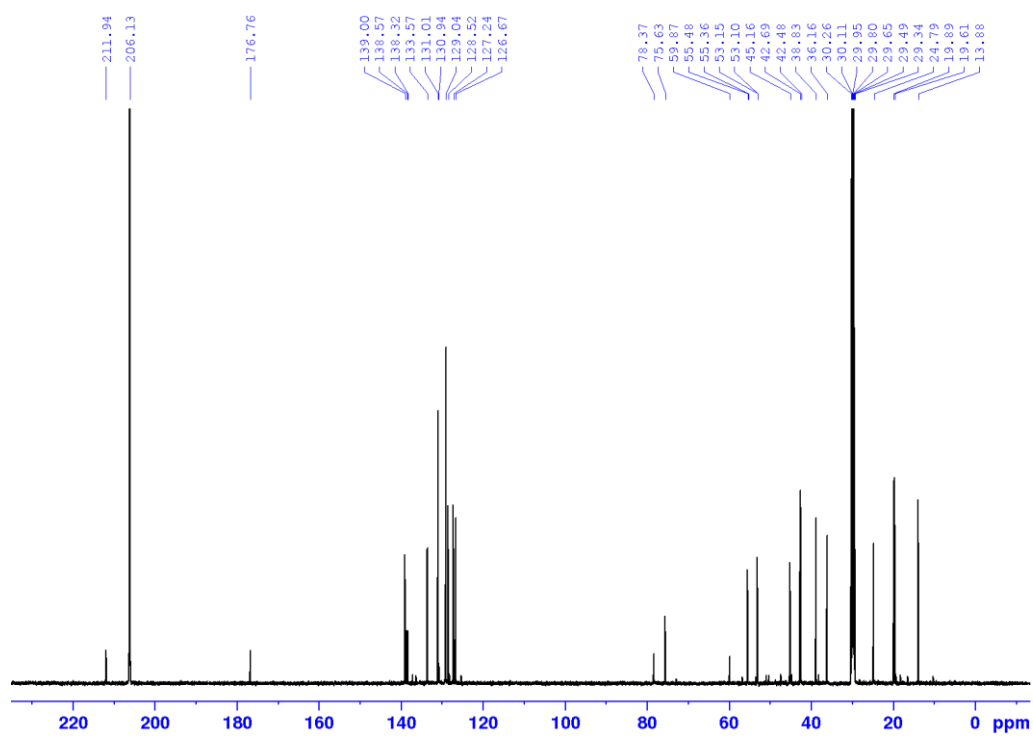


Figure S20. ^{13}C NMR spectrum of compound **4** in Acetone- d_6

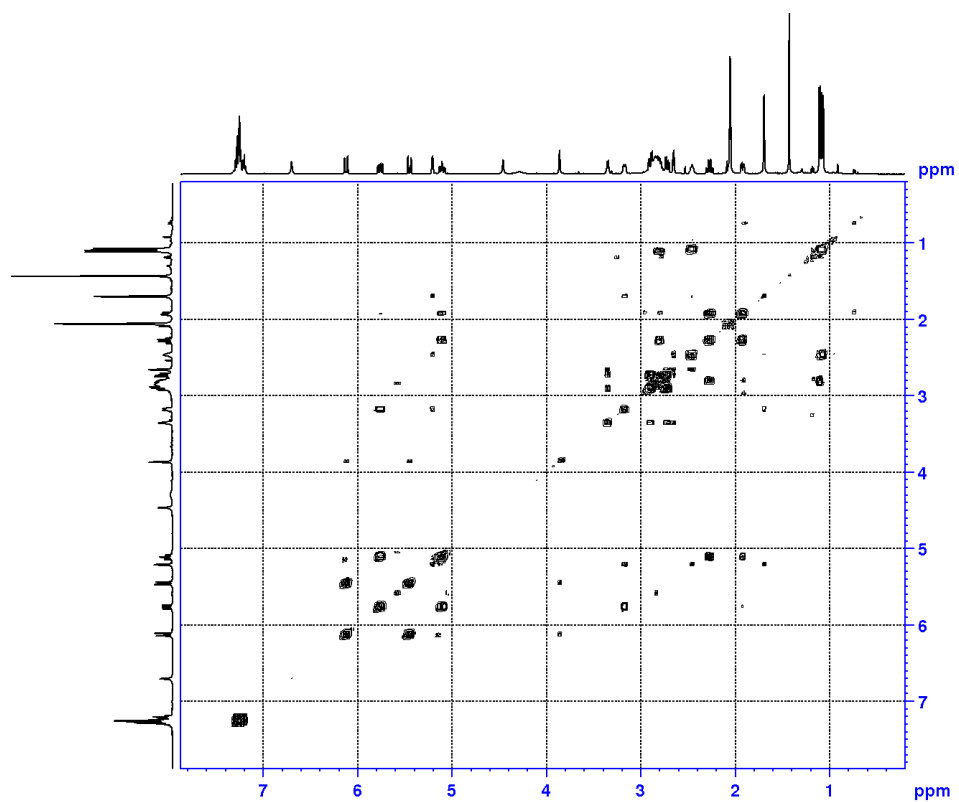


Figure S21. COSY spectrum of compound **4** in Acetone- d_6

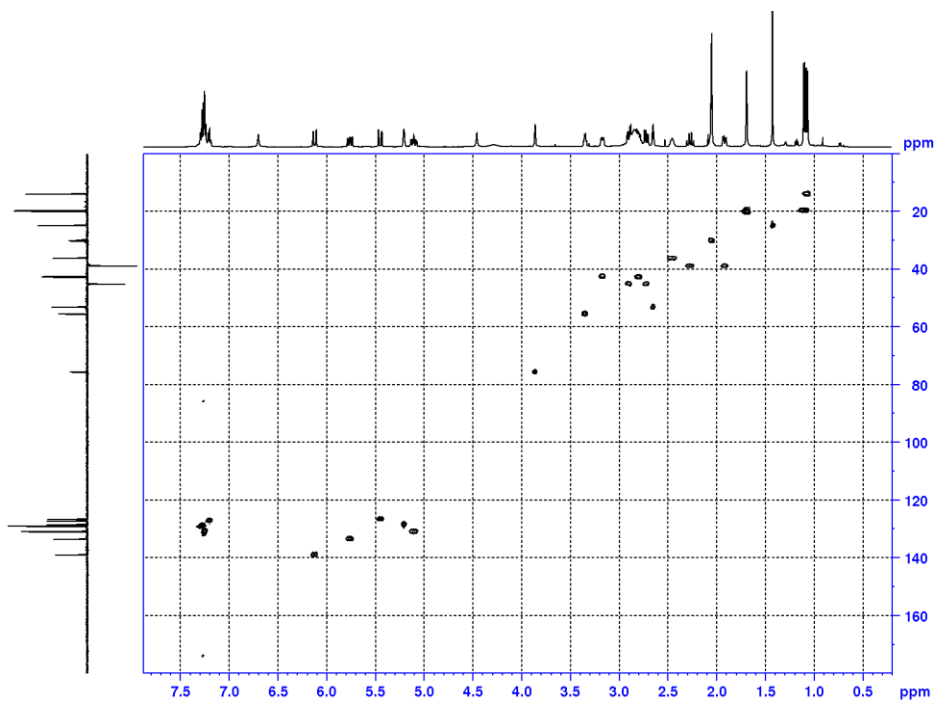


Figure S22. HSQC spectrum of compound **4** in Acetone- d_6

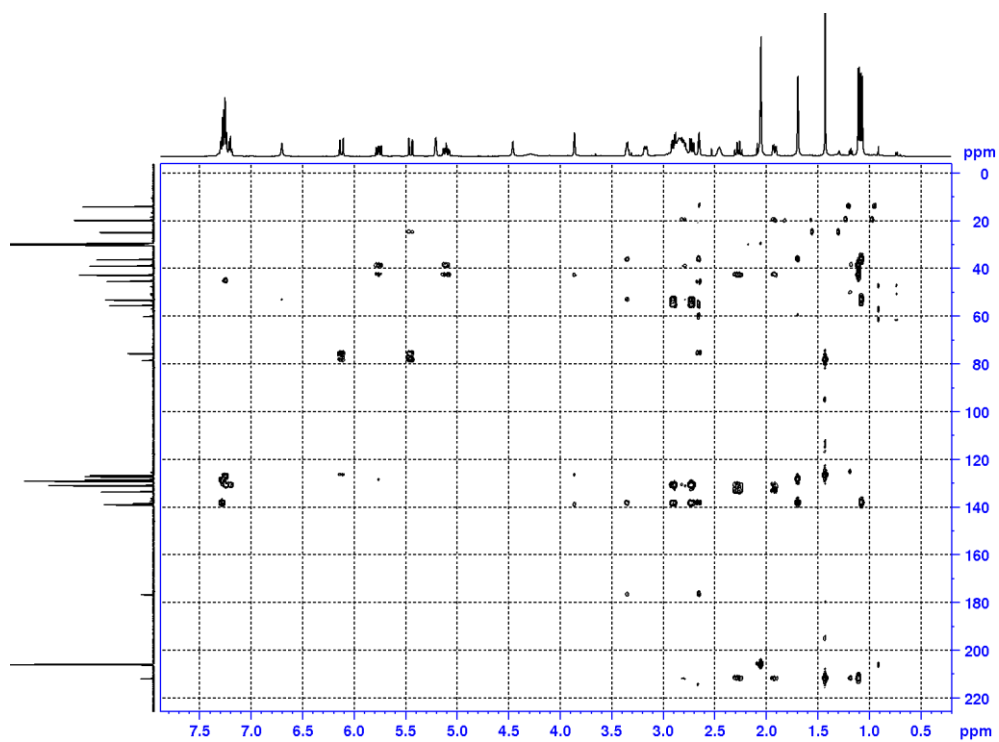


Figure S23. HMBC spectrum of compound **4** in Acetone- d_6

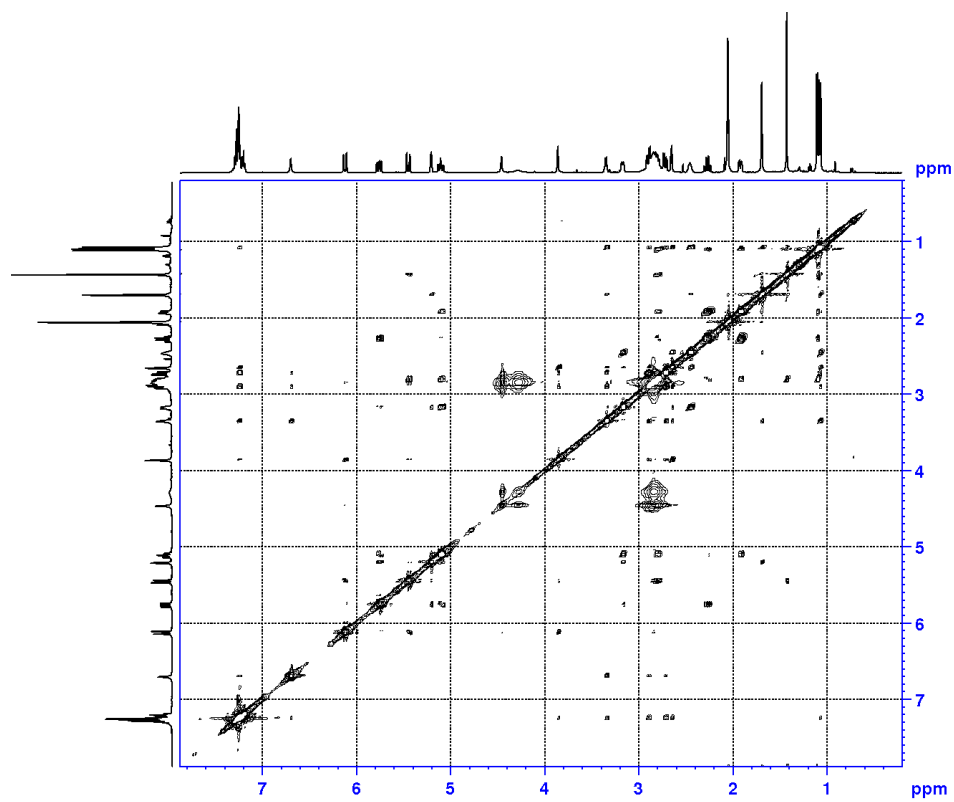


Figure S24. NOESY spectrum of compound **4** in Acetone- d_6

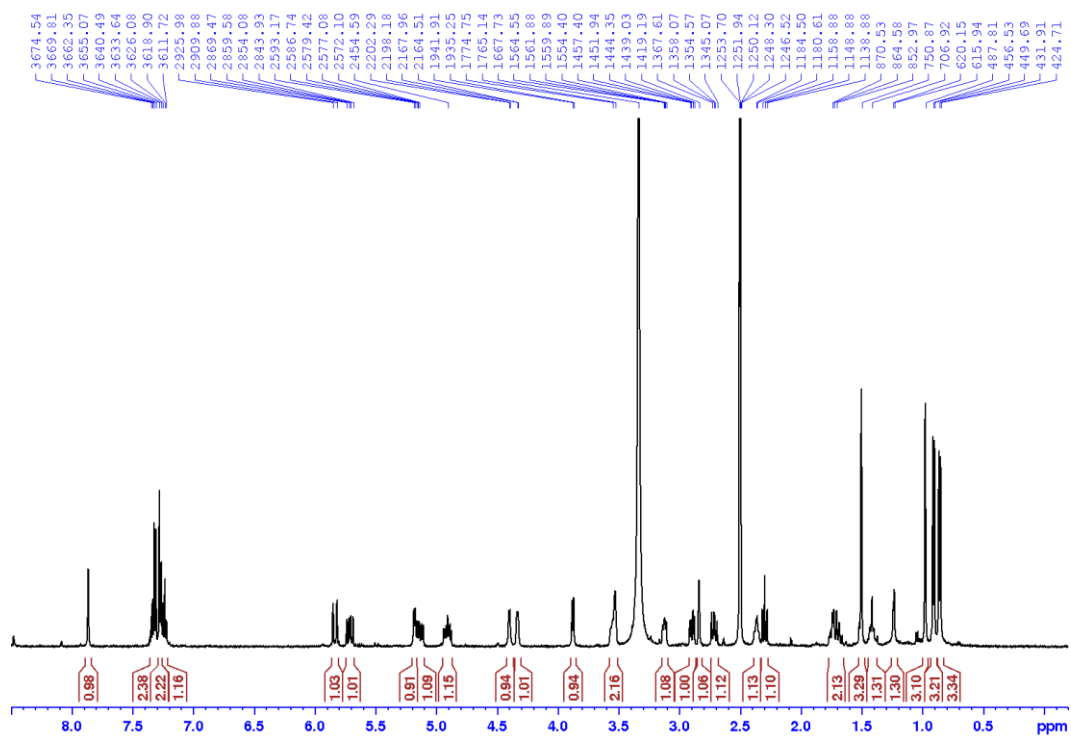


Figure S25. ^1H NMR spectrum of compound **5** in $\text{DMSO-}d_6$

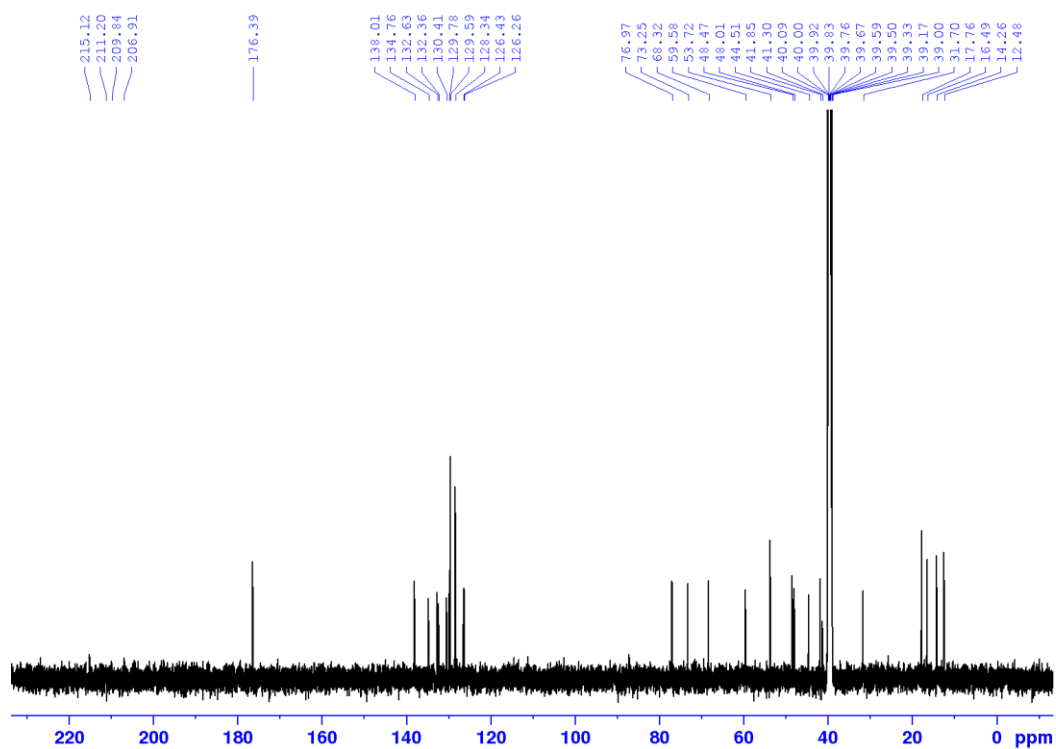


Figure S26. ^{13}C NMR spectrum of compound **5** in $\text{DMSO-}d_6$

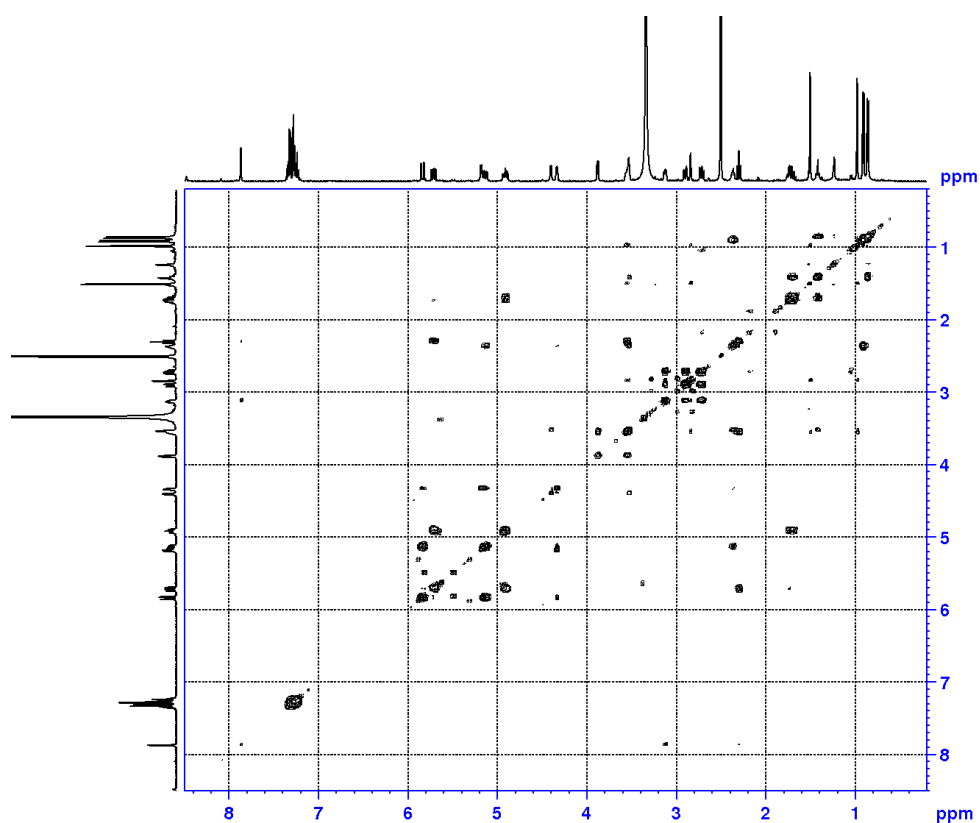


Figure S27. COSY spectrum of compound **5** in DMSO- d_6

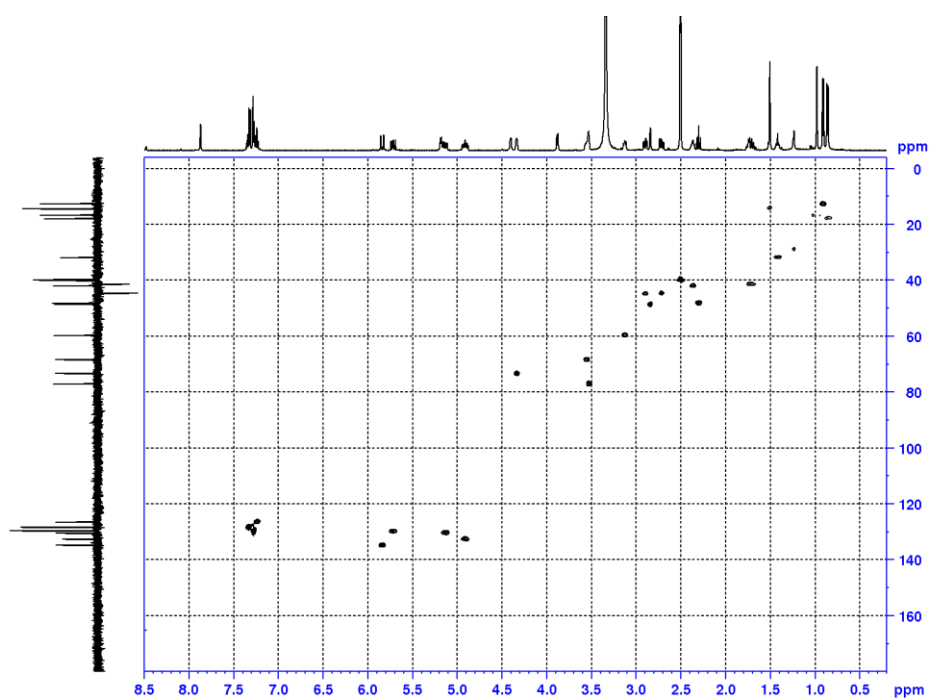


Figure S28. HSQC spectrum of compound **5** in DMSO- d_6

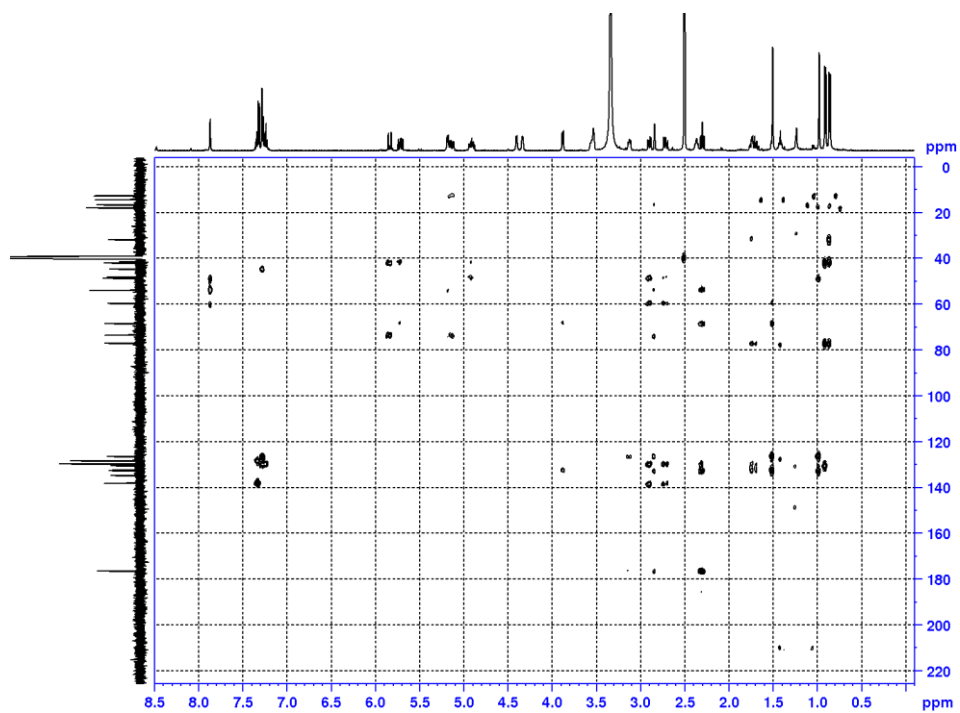


Figure S29. HMBC spectrum of compound **5** in DMSO-*d*₆

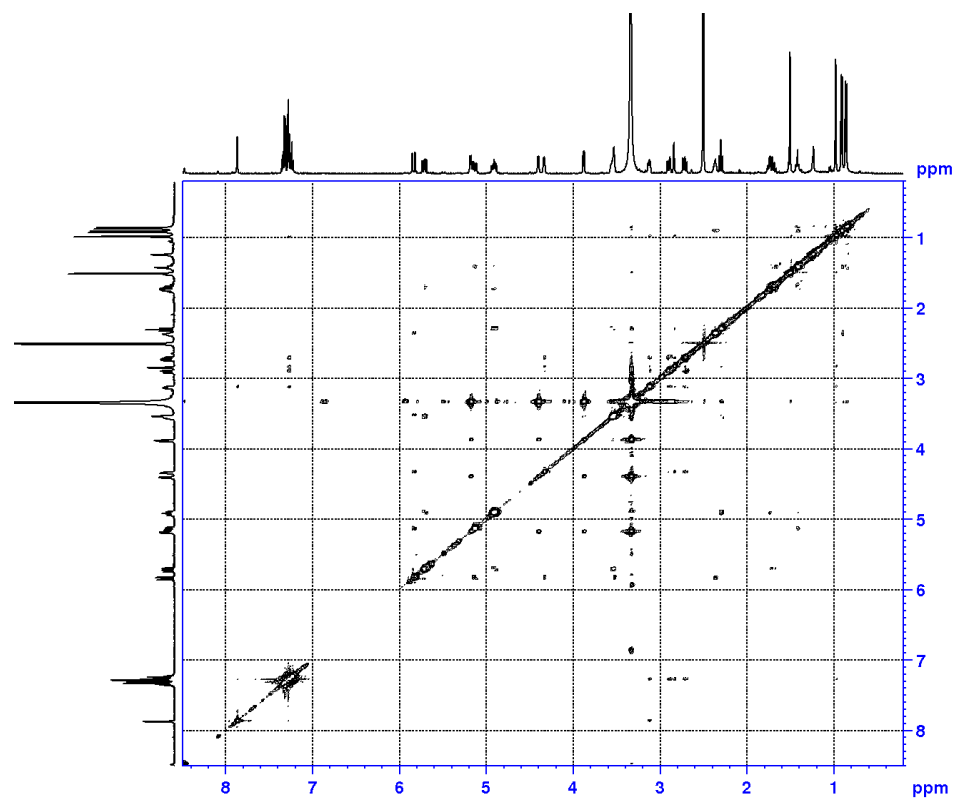


Figure S30. NOESY spectrum of compound **5** in DMSO-*d*₆

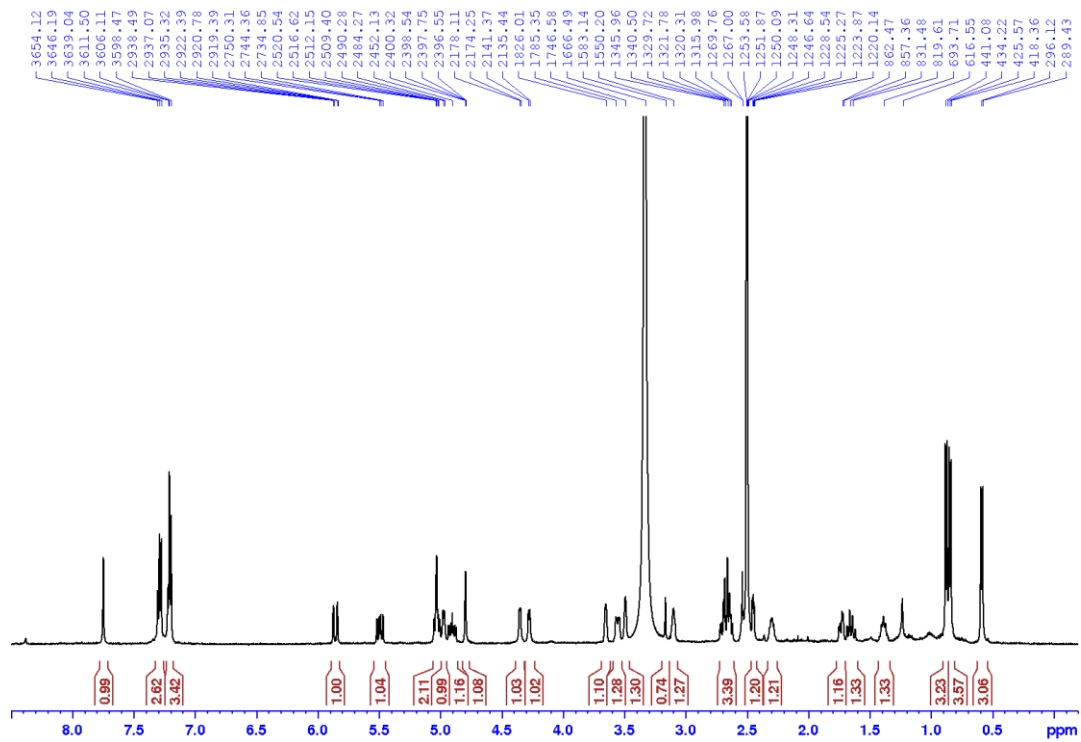


Figure S31. ^1H NMR spectrum of compound **6** in $\text{DMSO}-d_6$

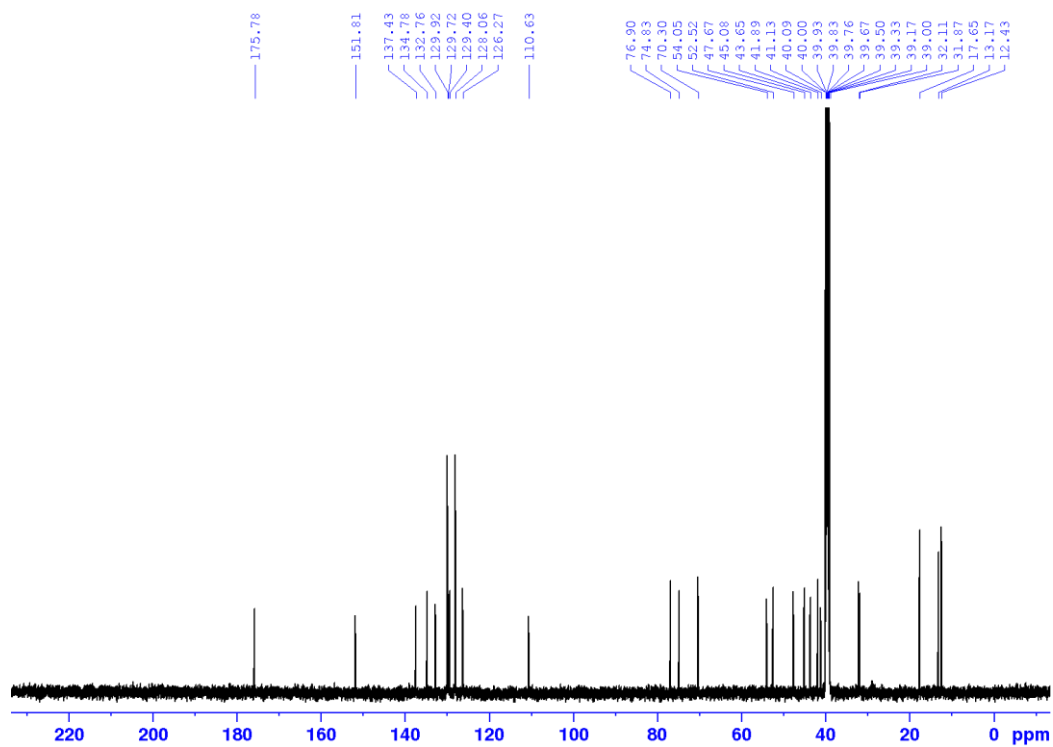


Figure S32. ^{13}C NMR spectrum of compound **6** in $\text{DMSO}-d_6$

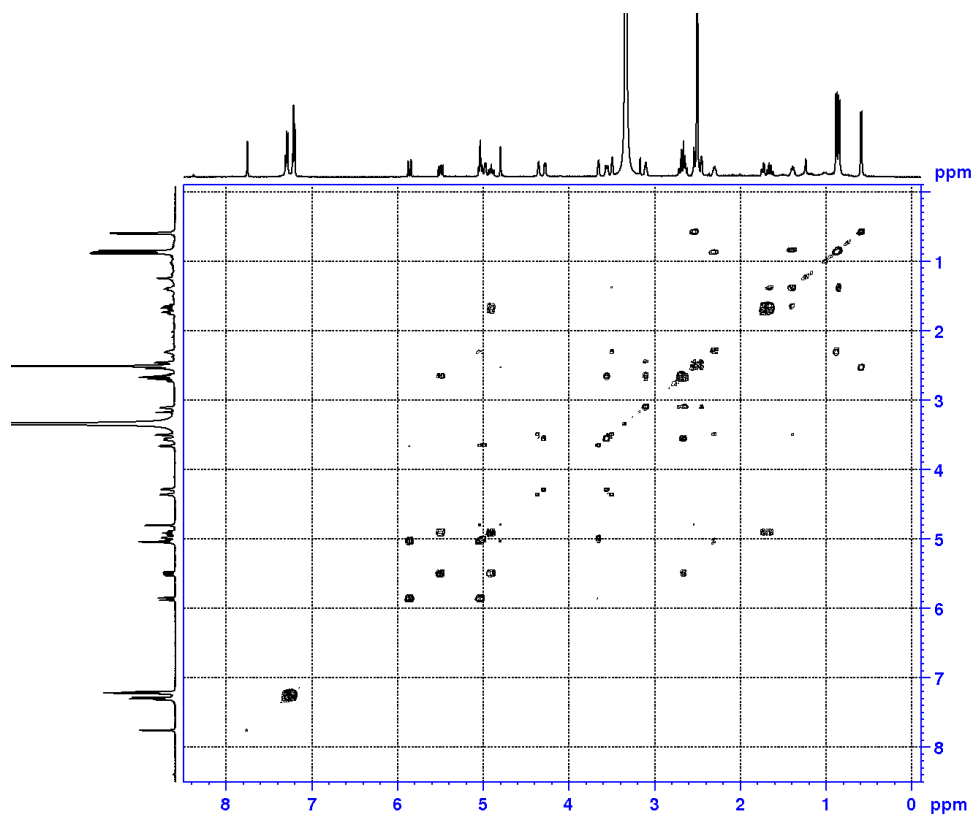


Figure S33. COSY spectrum of compound **6** in DMSO- d_6

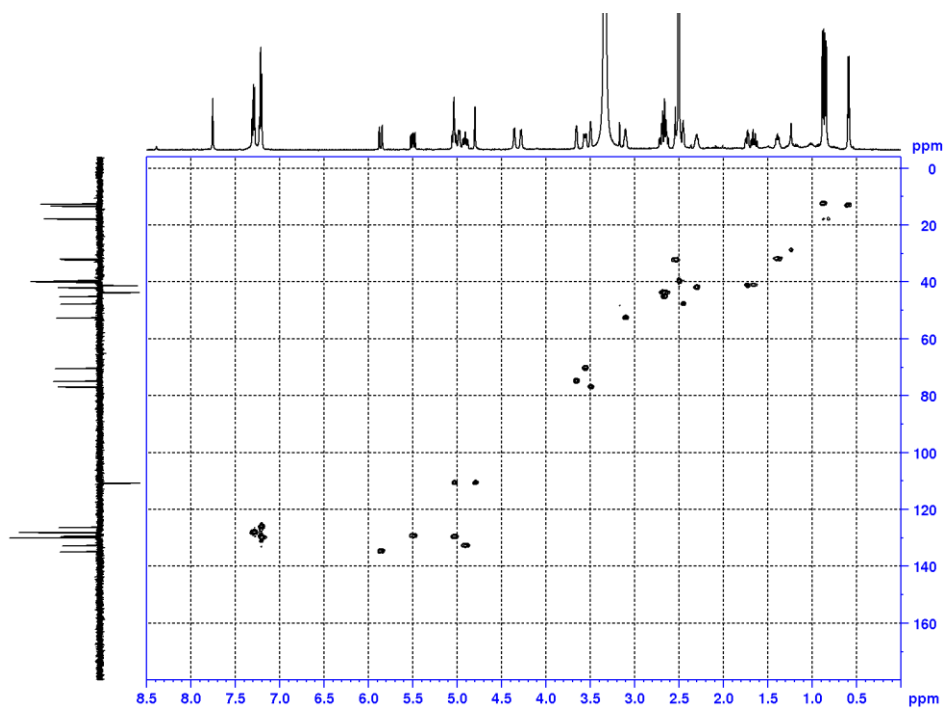


Figure S34. HSQC spectrum of compound **6** in DMSO- d_6

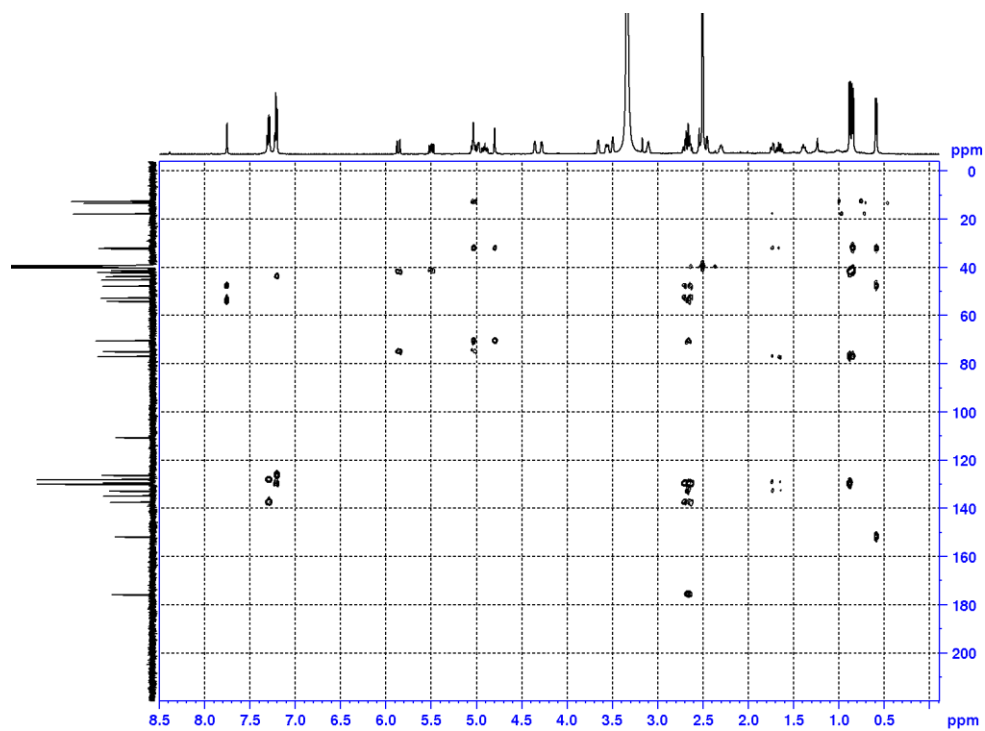


Figure S35. HMBC spectrum of compound **6** in DMSO-*d*₆

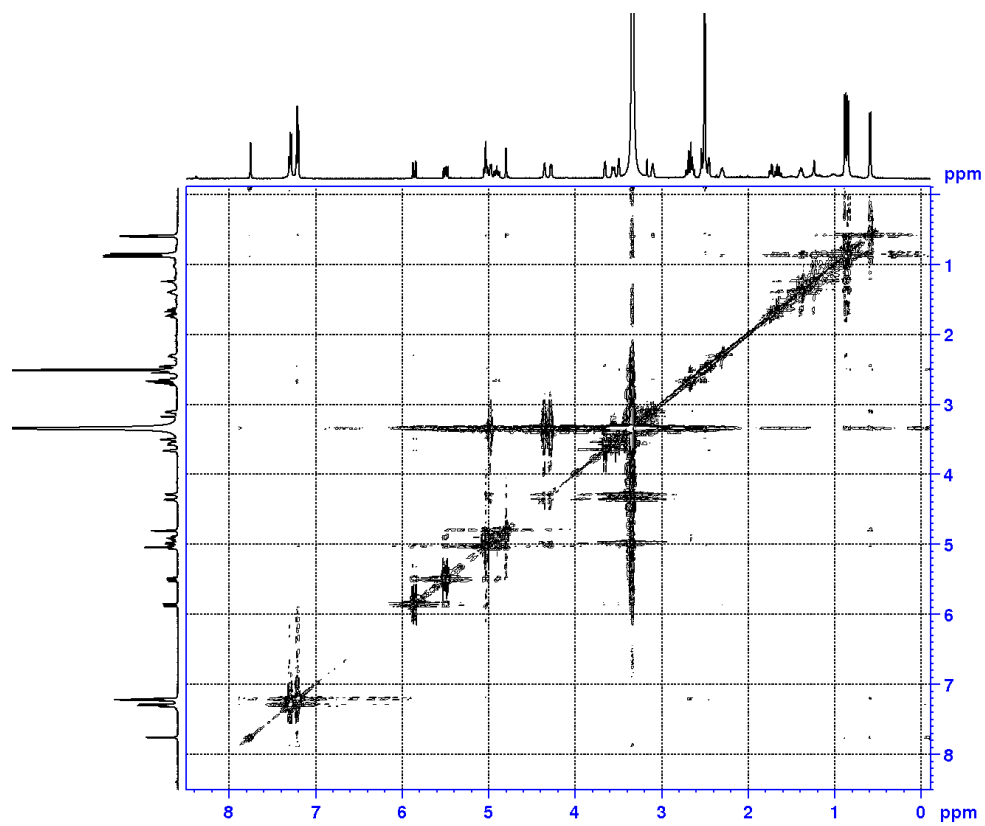


Figure S36. NOESY spectrum of compound **6** in DMSO-*d*₆

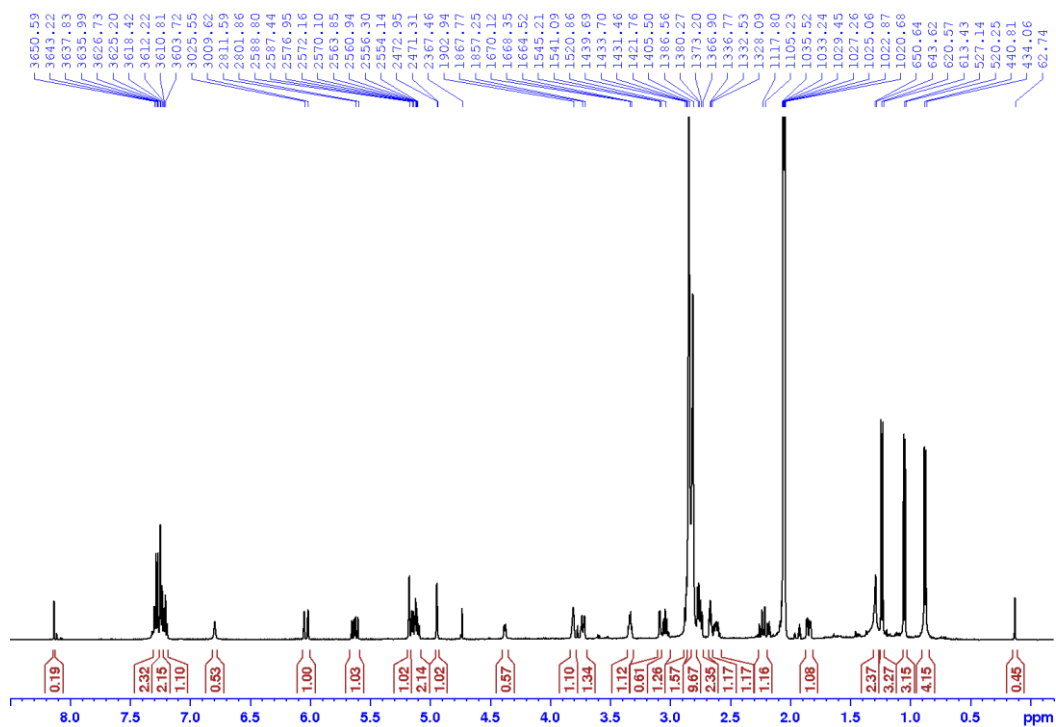


Figure S37. ^1H NMR spectrum of compound **7** in Acetone- d_6

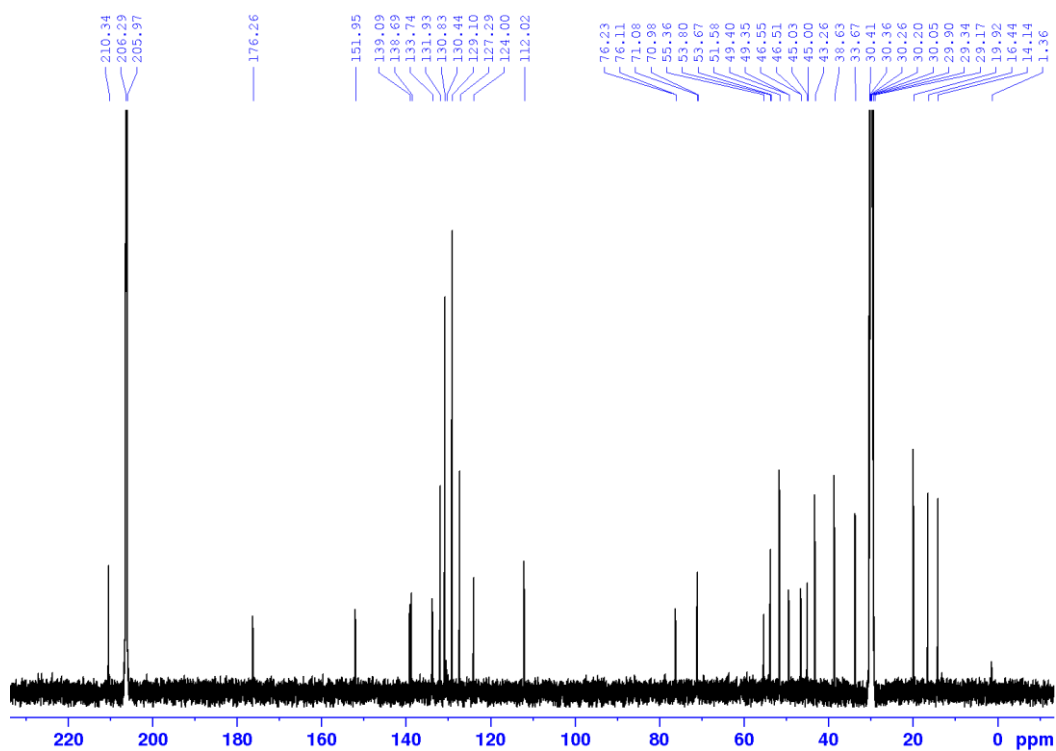


Figure S38. ^{13}C NMR spectrum of compound **7** in Acetone- d_6

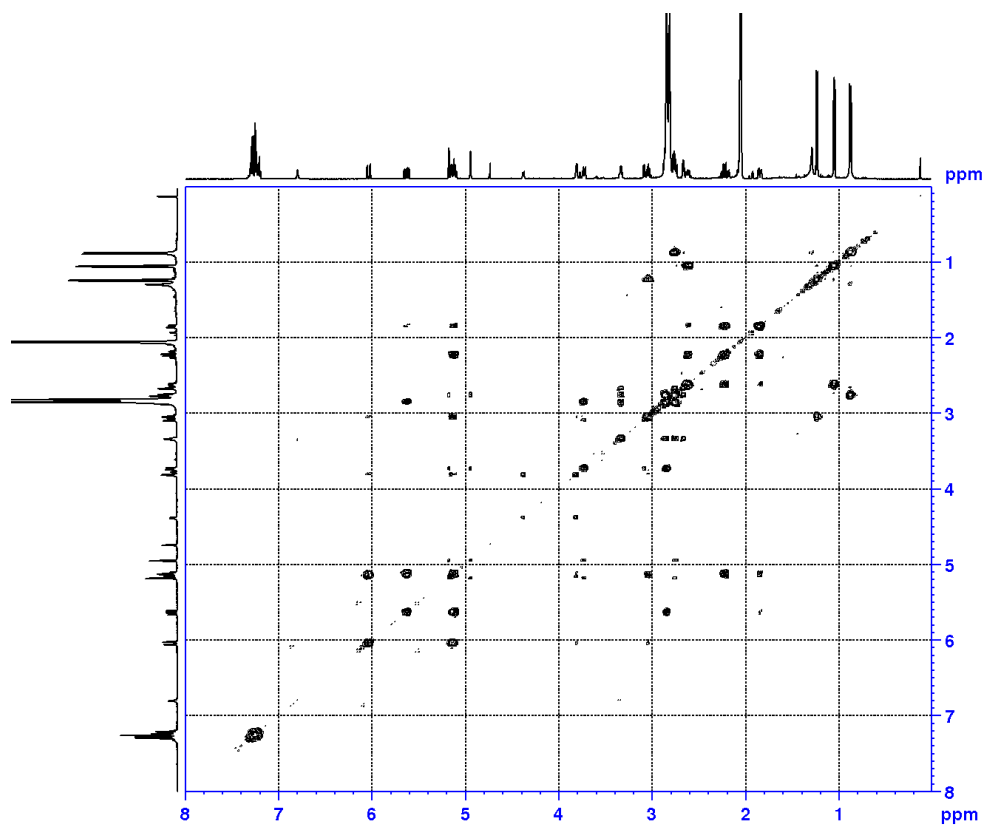


Figure S39. COSY spectrum of compound **7** in Acetone- d_6

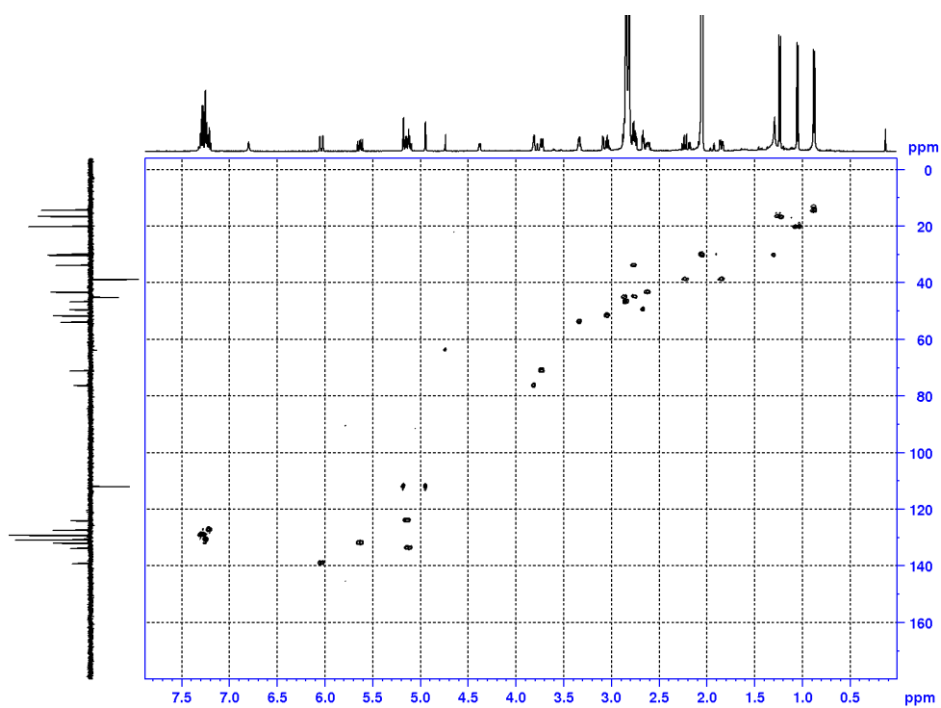


Figure S40. HSQC spectrum of compound **7** in Acetone- d_6

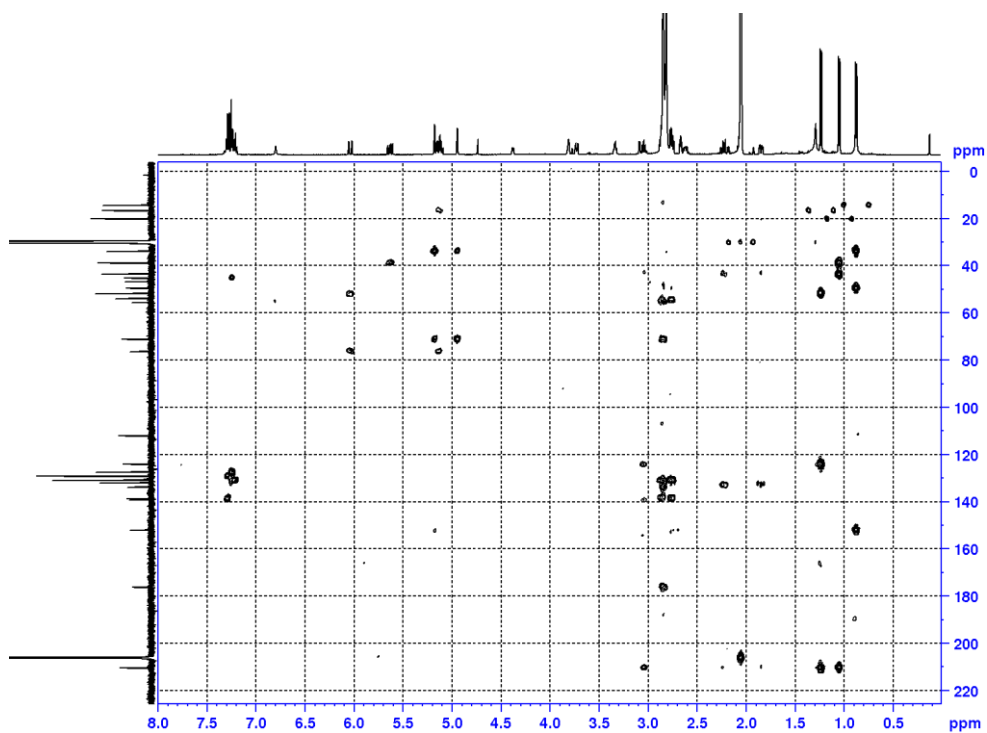


Figure S41. HMBC spectrum of compound **7** in Acetone-*d*₆

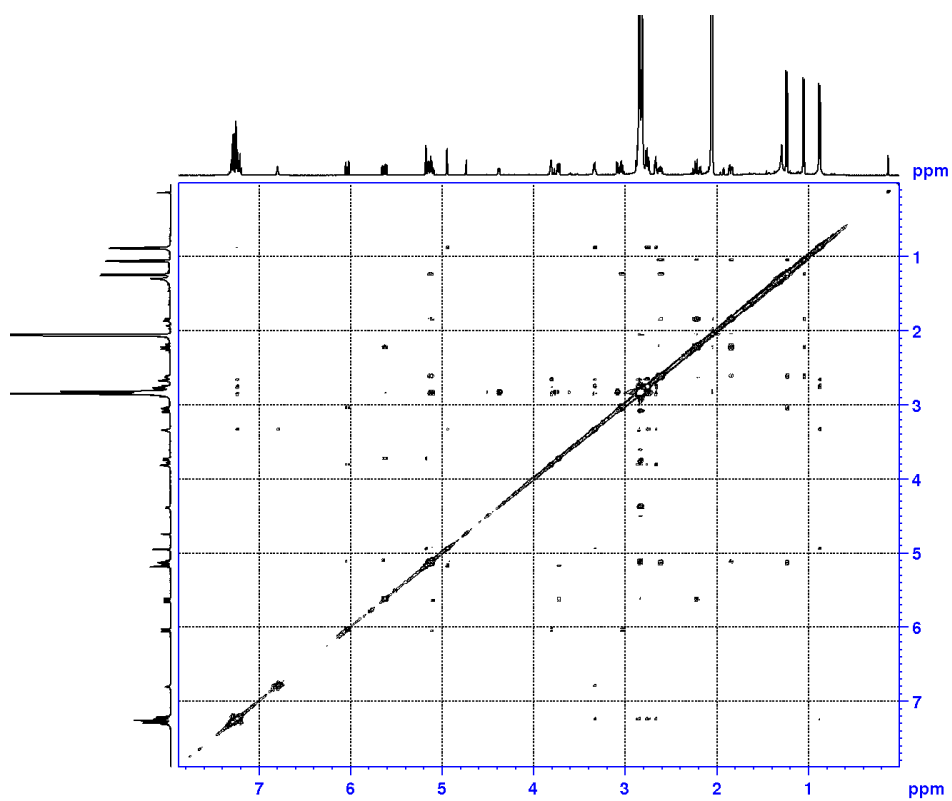


Figure S42. NOESY spectrum of compound **7** in Acetone-*d*₆

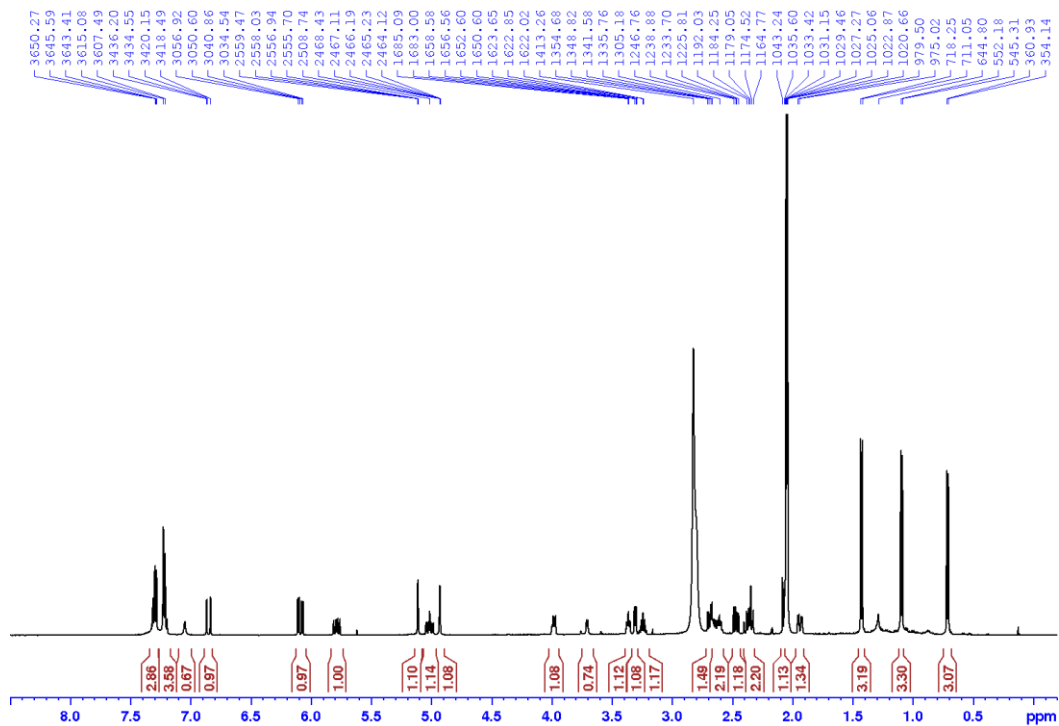


Figure S43. ^1H NMR spectrum of compound **8** in Acetone- d_6

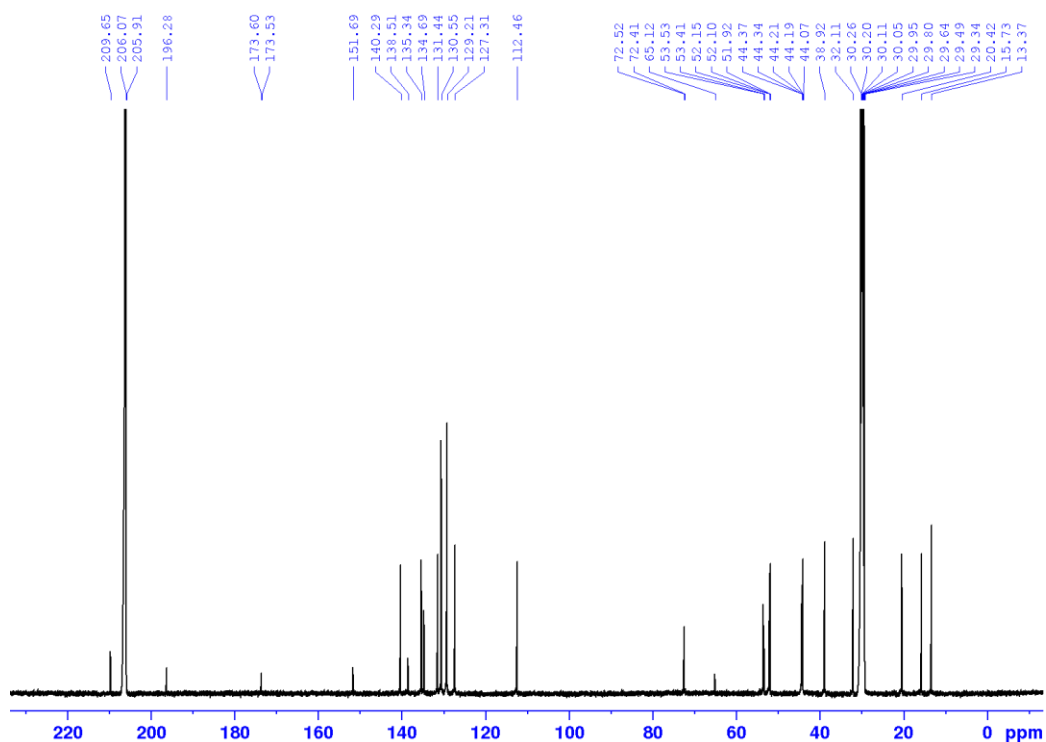


Figure S44. ^{13}C NMR spectrum of compound **8** in Acetone- d_6

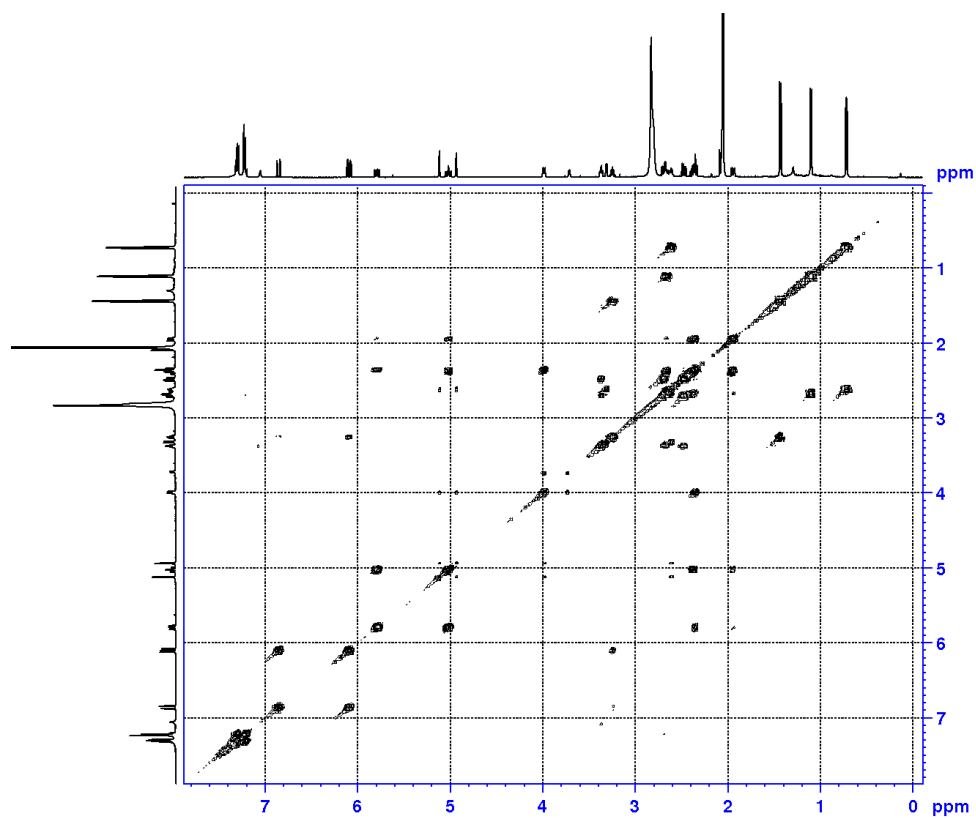


Figure S45. COSY spectrum of compound **8** in Acetone- d_6

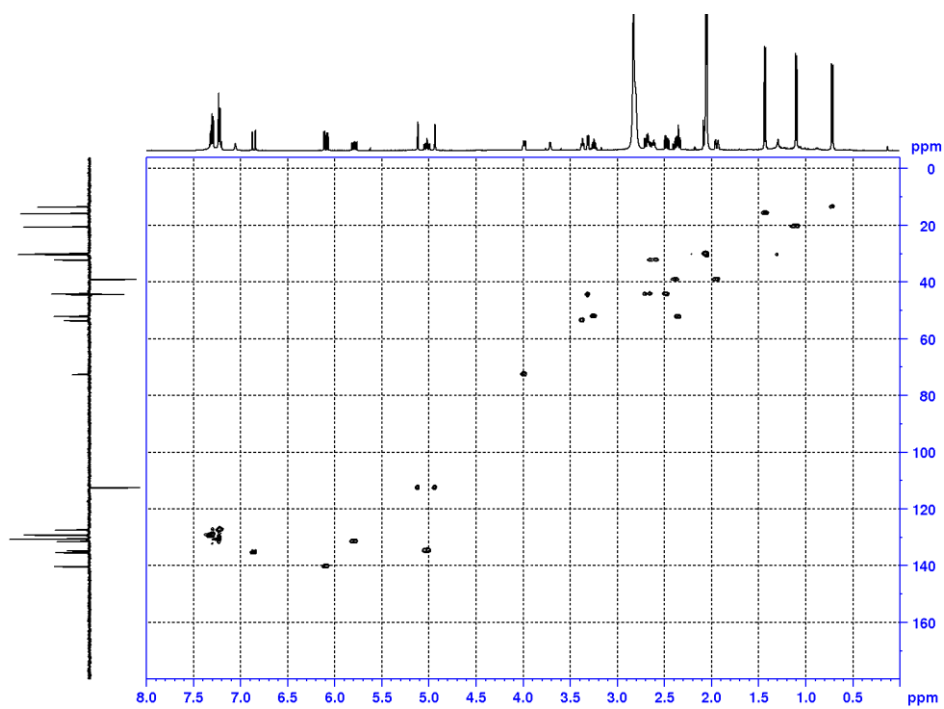


Figure S46. HSQC spectrum of compound **8** in Acetone- d_6

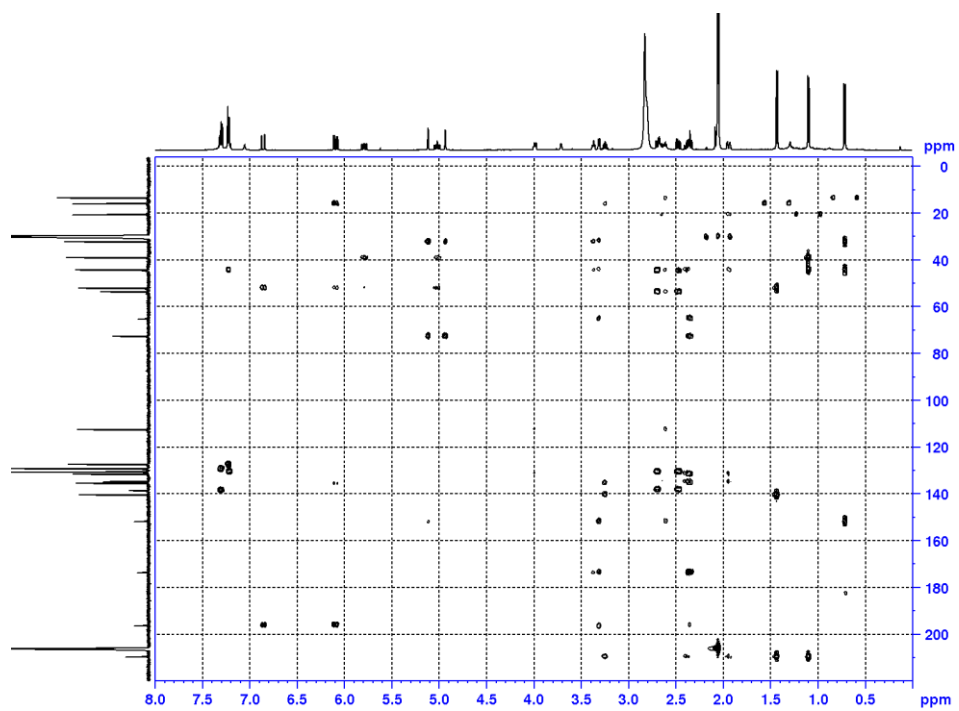


Figure S47. HMBC spectrum of compound **8** in Acetone- d_6

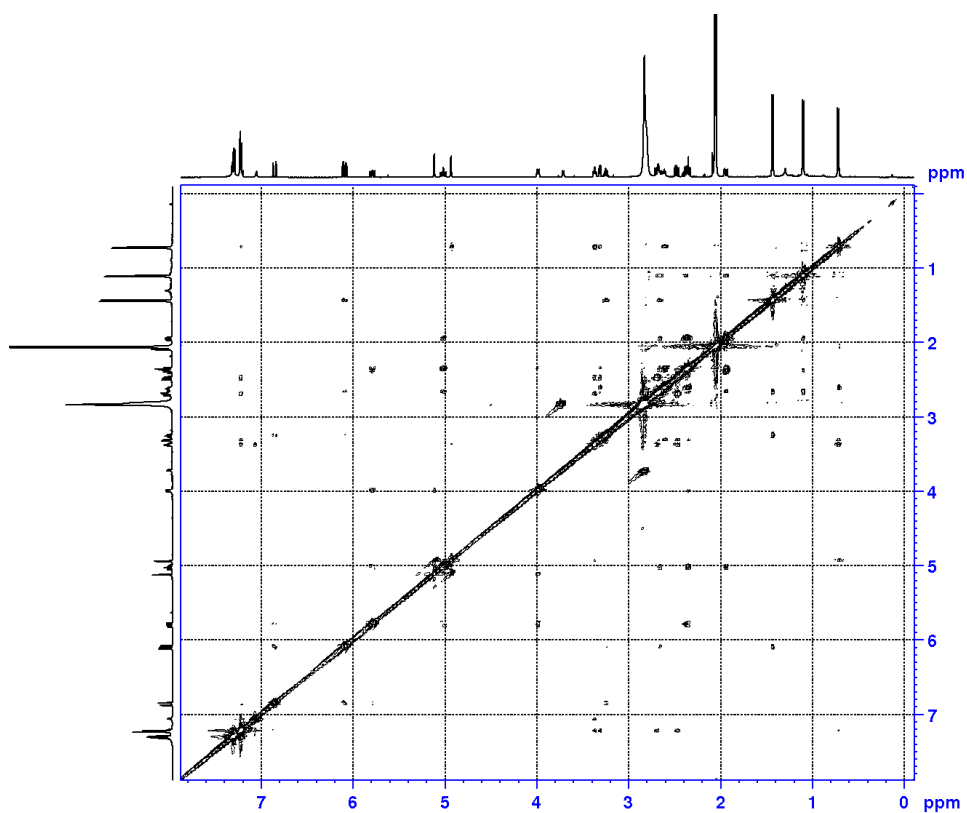


Figure S48. NOESY spectrum of compound **8** in Acetone- d_6

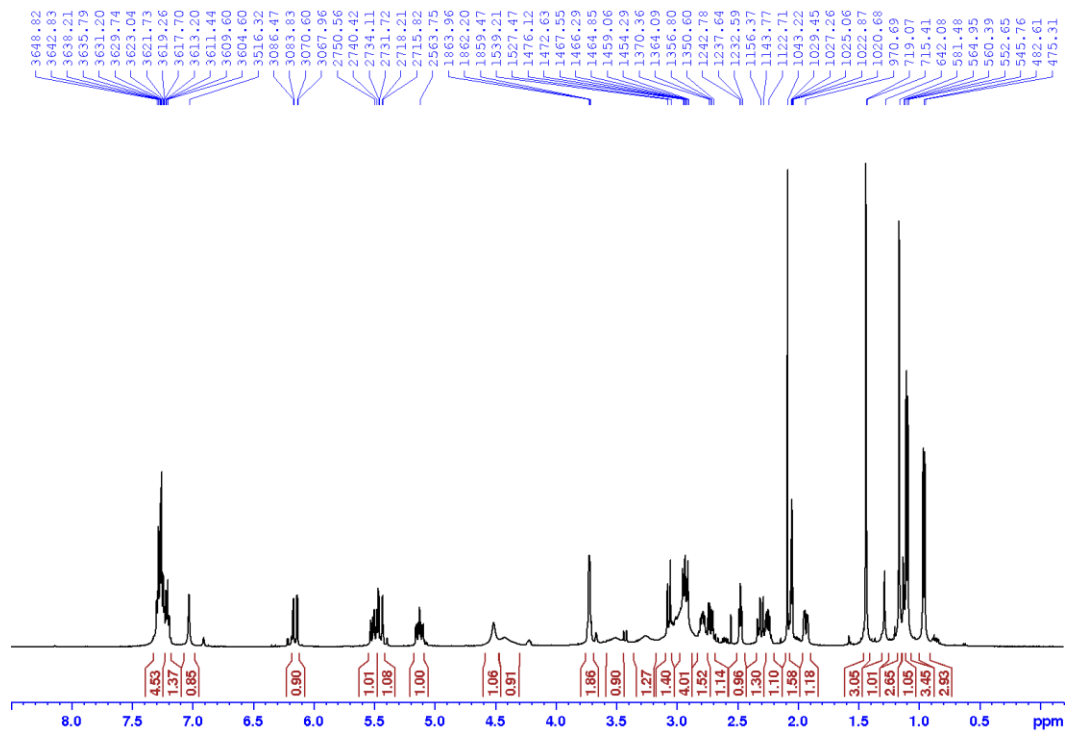


Figure S49. ^1H NMR spectrum of compound **9** in Acetone- d_6

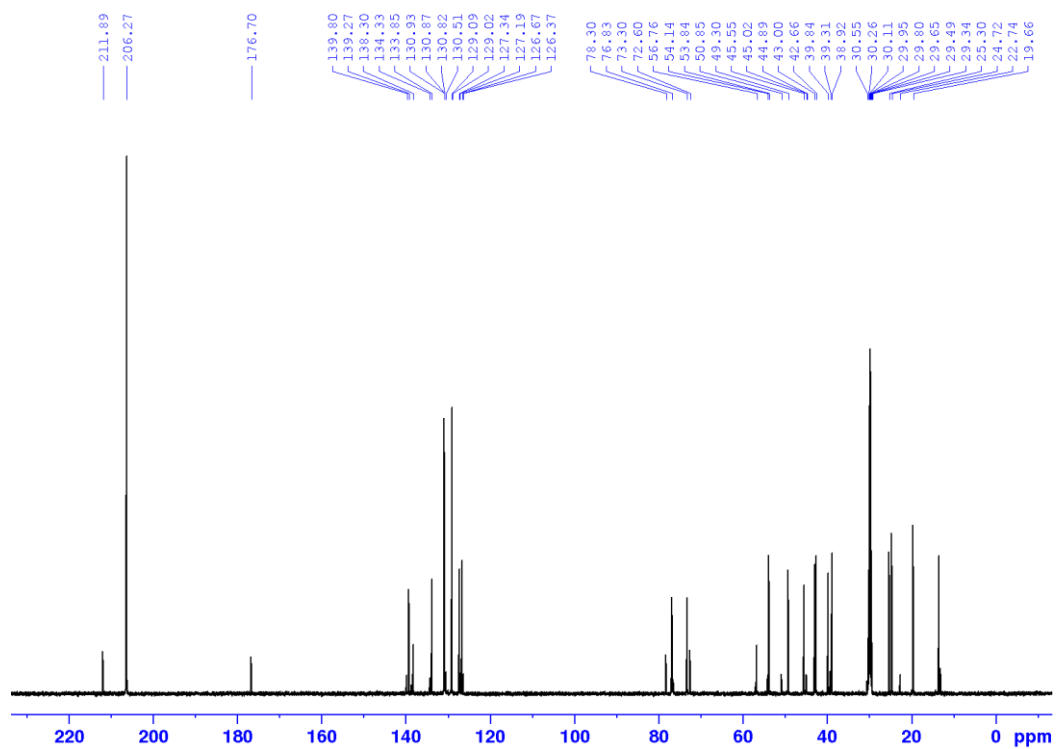


Figure S50. ^{13}C NMR spectrum of compound **9** in Acetone- d_6

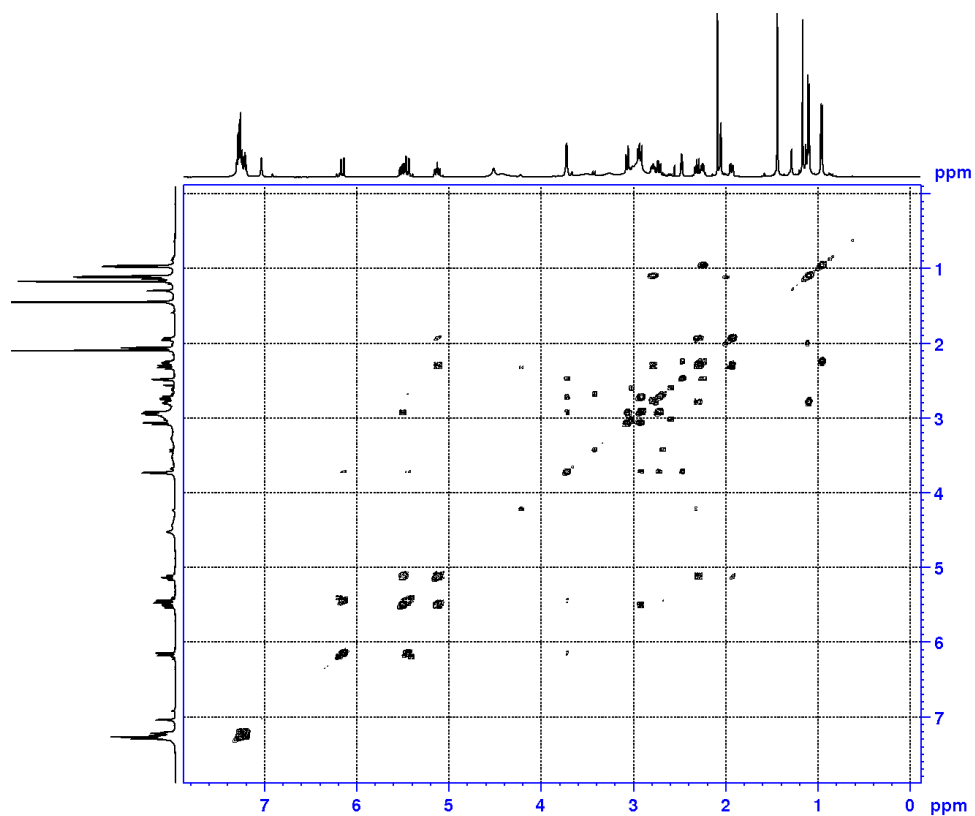


Figure S51. COSY spectrum of compound **9** in Acetone- d_6

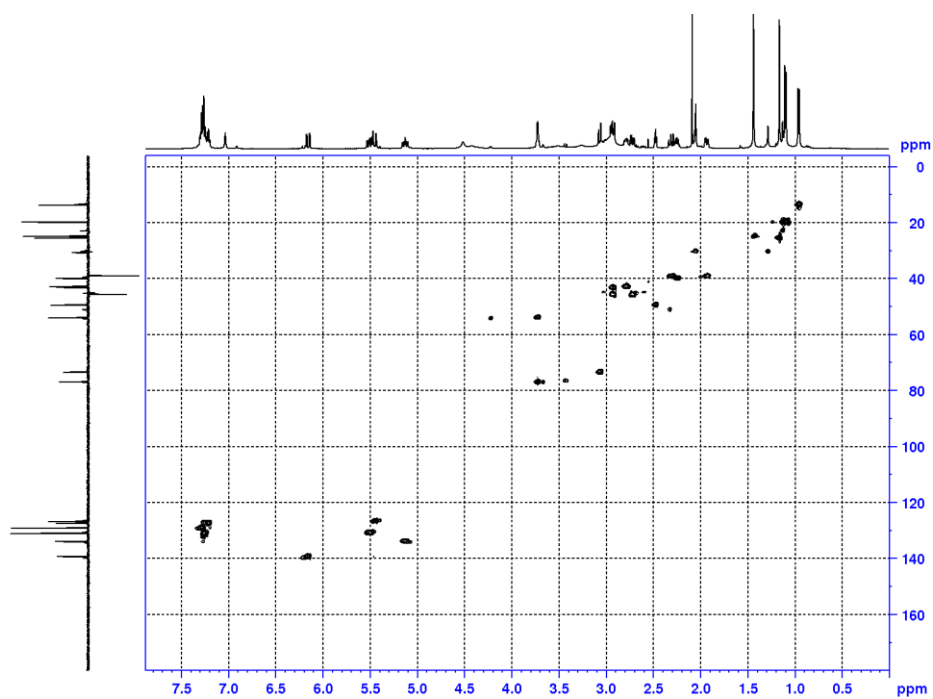


Figure S52. HSQC spectrum of compound **9** in Acetone- d_6

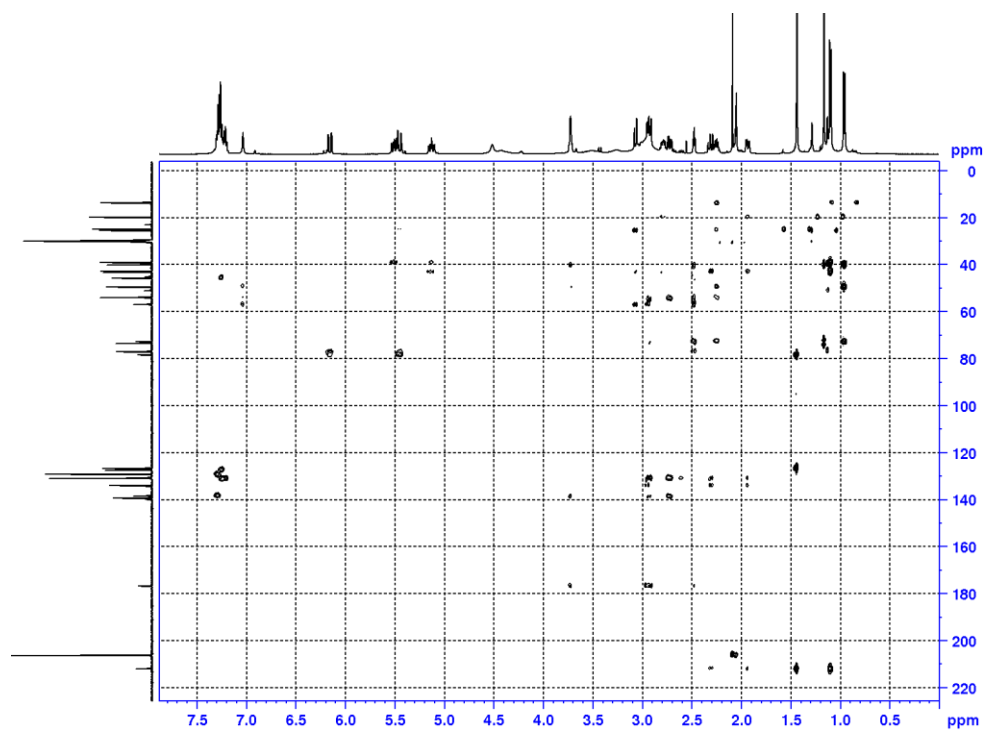


Figure S53. HMBC spectrum of compound **9** in Acetone- d_6

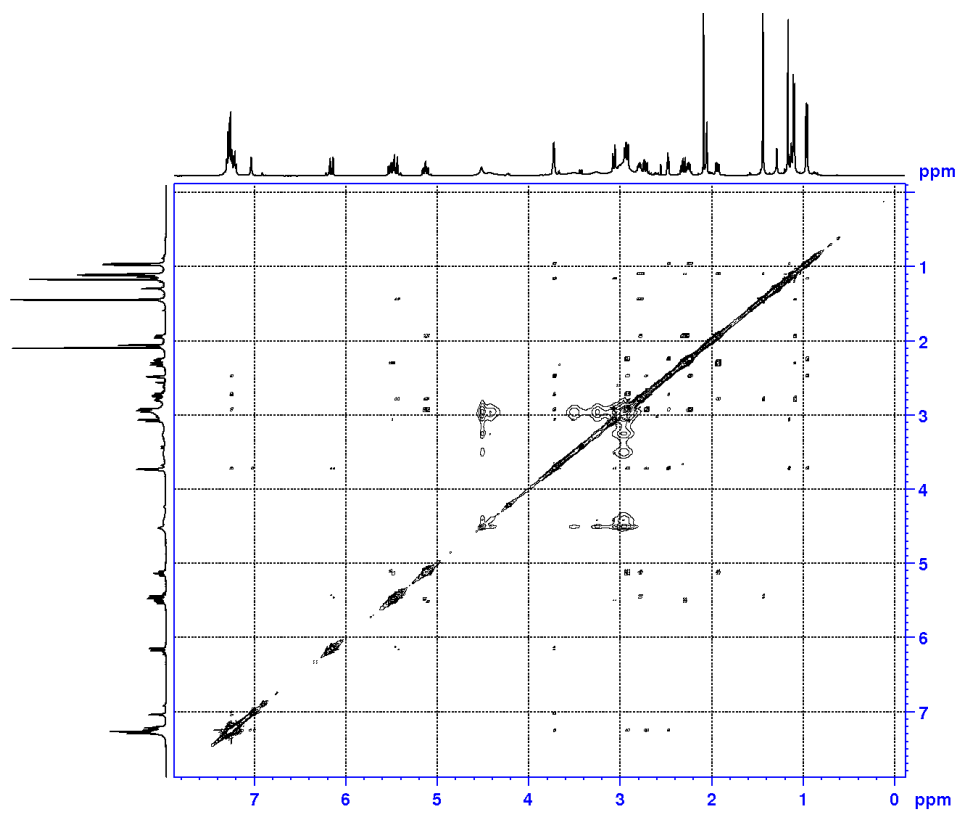


Figure S54. NOESY spectrum of compound **9** in Acetone- d_6

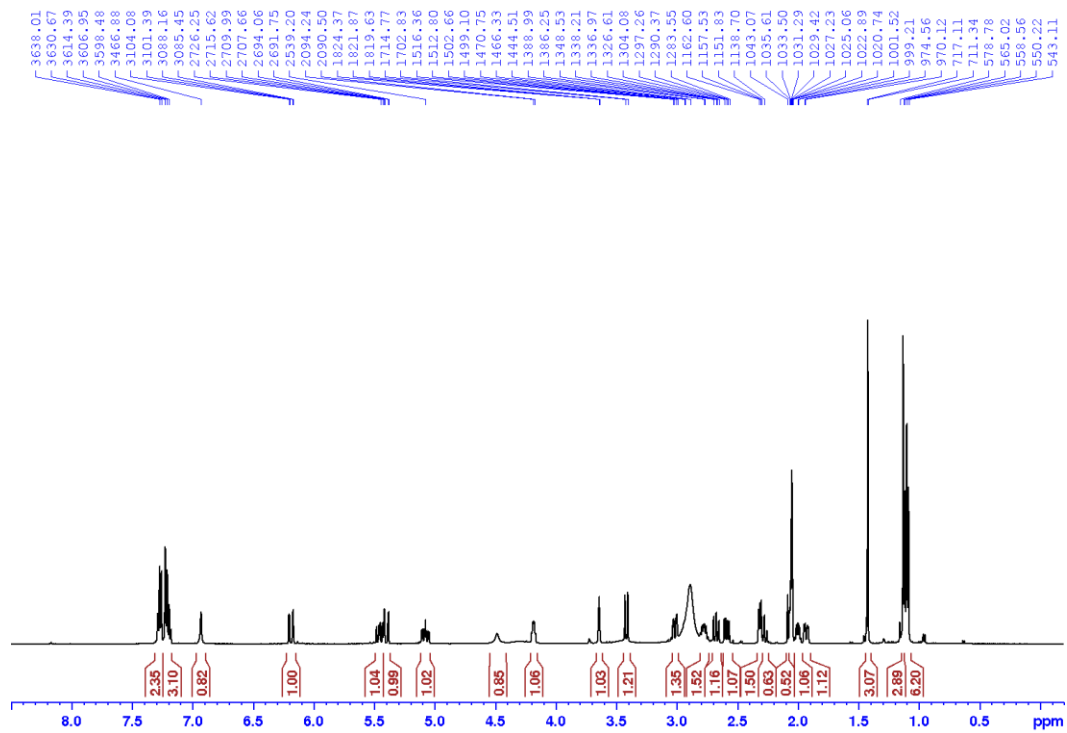


Figure S55. ^1H NMR spectrum of compound **10** in Acetone- d_6

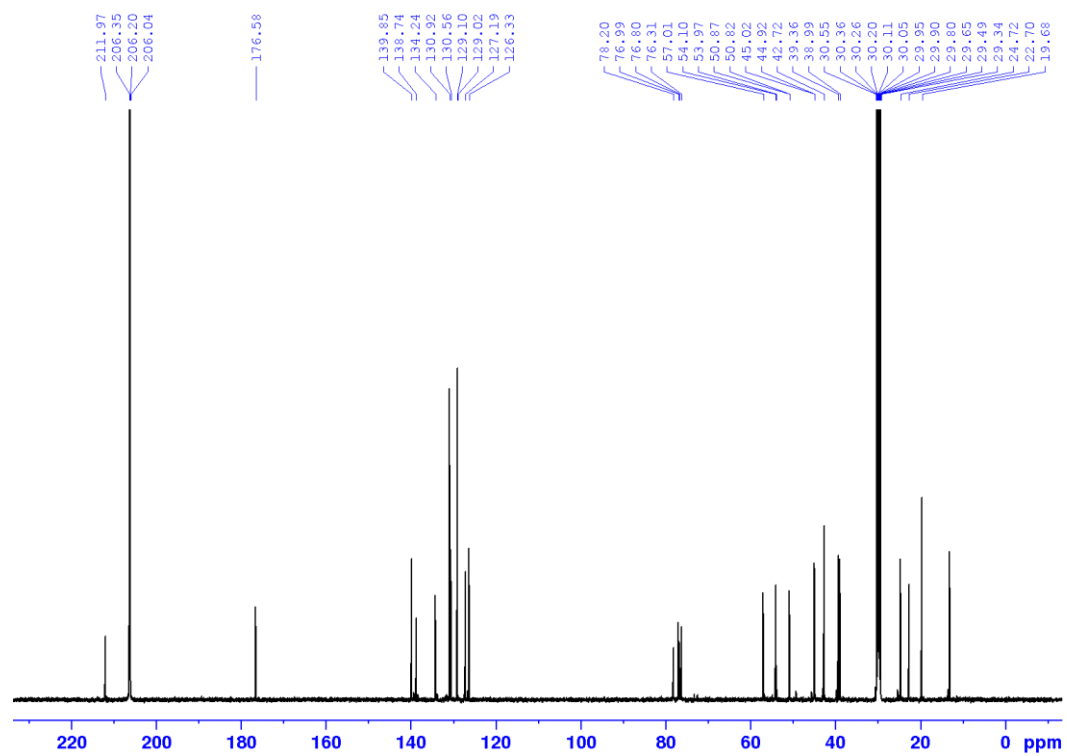


Figure S56. ^{13}C NMR spectrum of compound **10** in Acetone- d_6

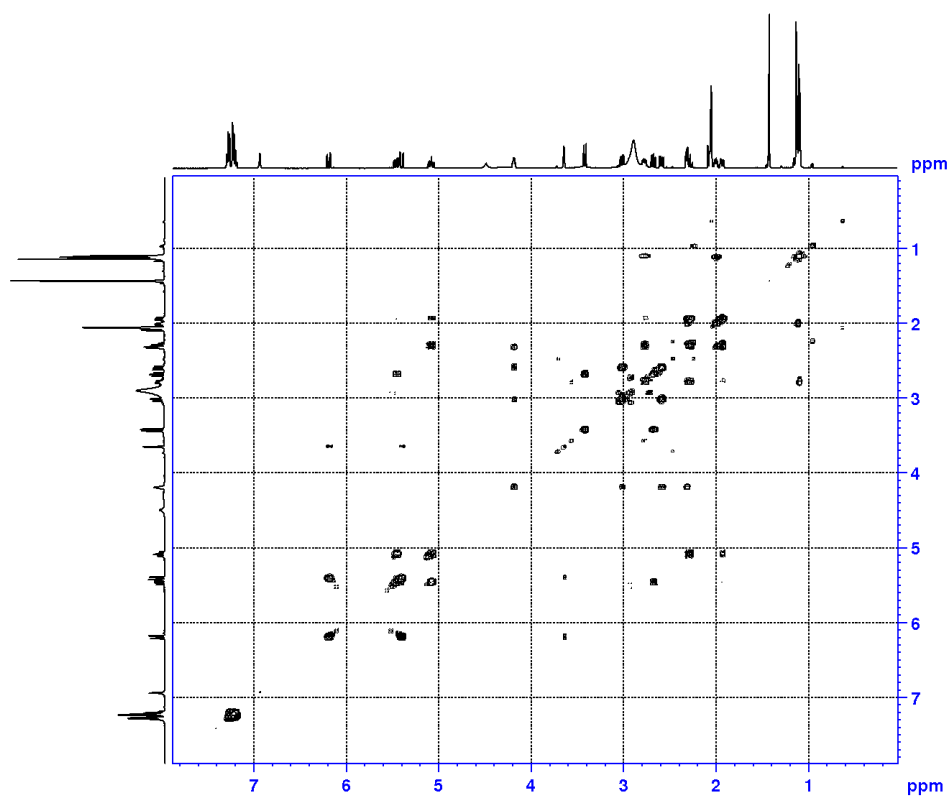


Figure S57. COSY spectrum of compound **10** in Acetone- d_6

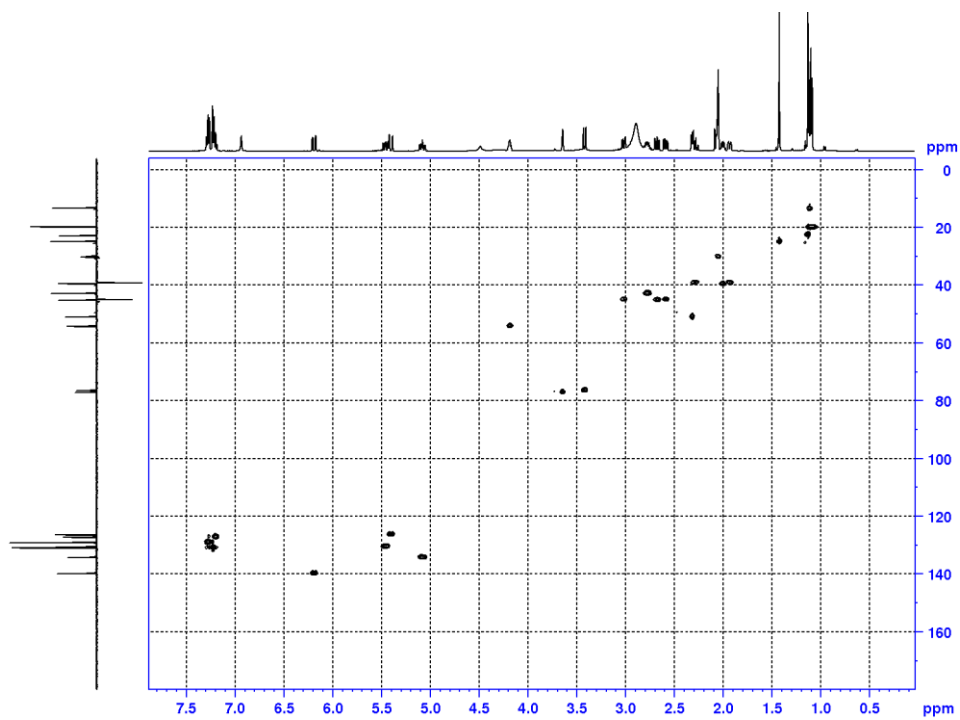


Figure S58. HSQC spectrum of compound **10** in Acetone- d_6

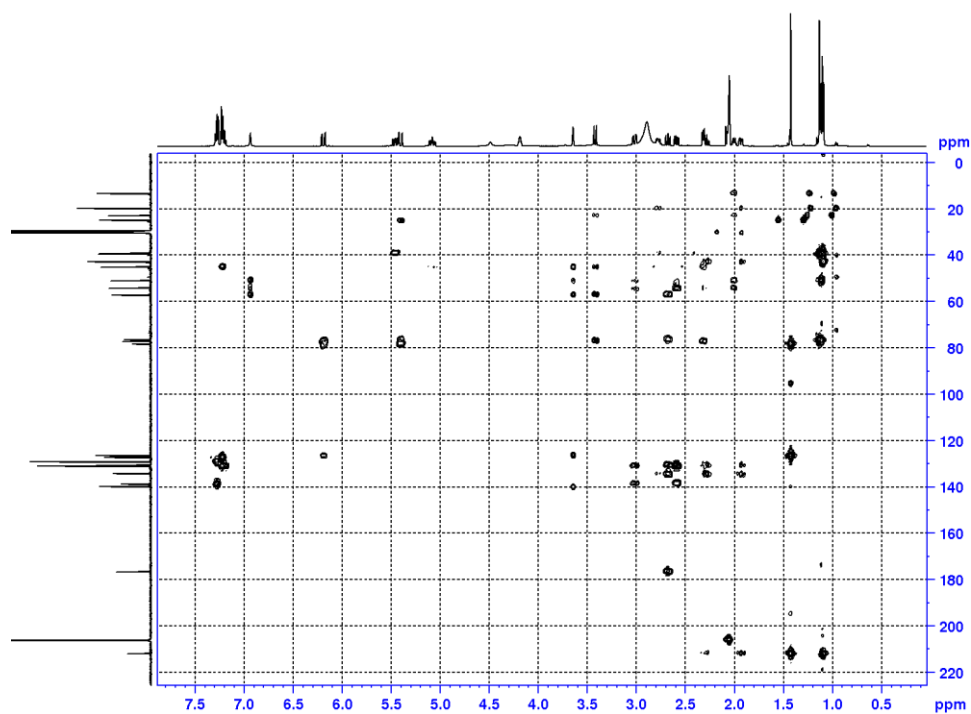


Figure S59. HMBC spectrum of compound **10** in Acetone- d_6

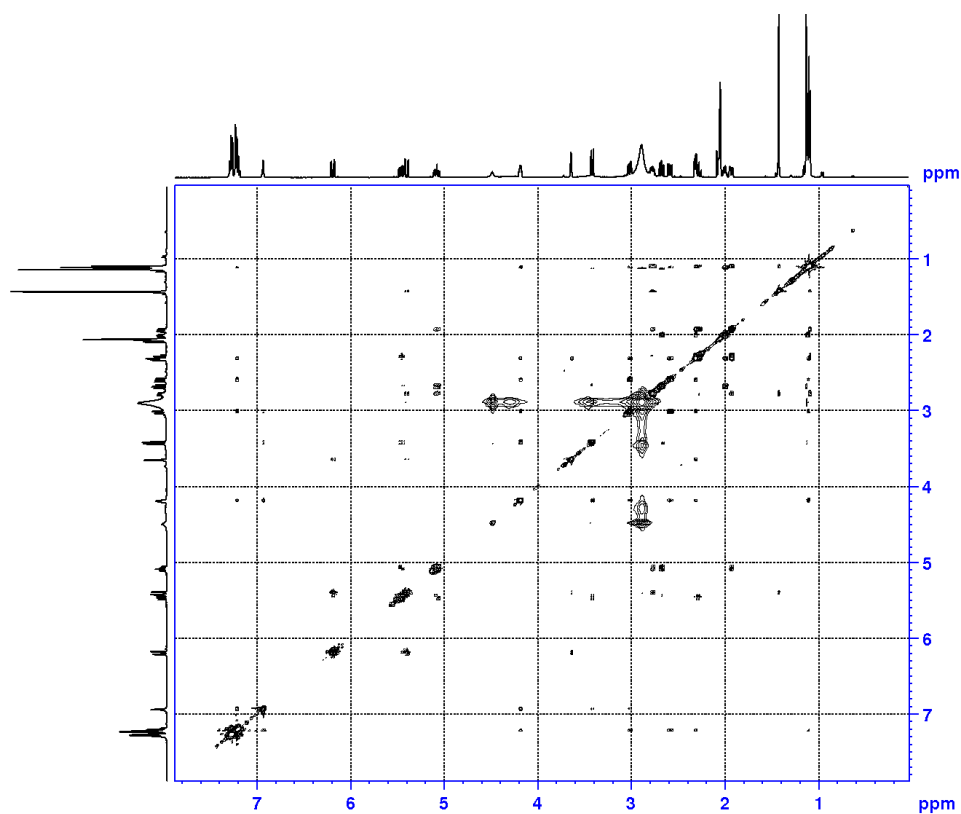


Figure S60. NOESY spectrum of compound **10** in Acetone- d_6

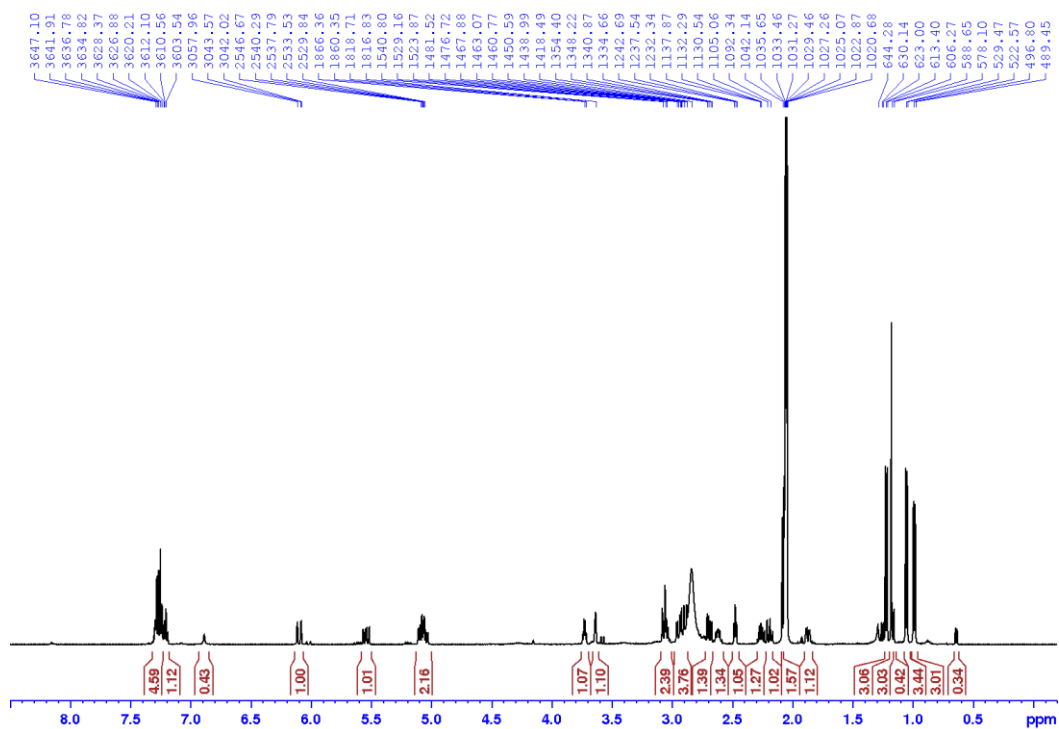


Figure S61. ^1H NMR spectrum of compound **11** in Acetone- d_6

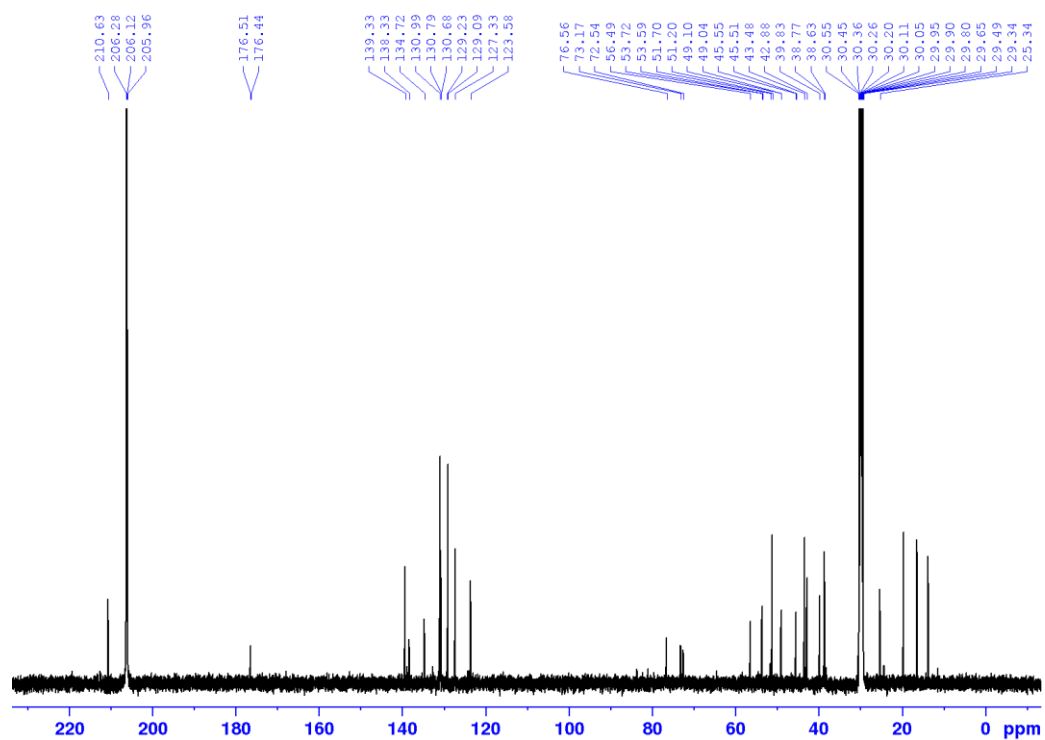


Figure S62. ^{13}C NMR spectrum of compound **11** in Acetone- d_6

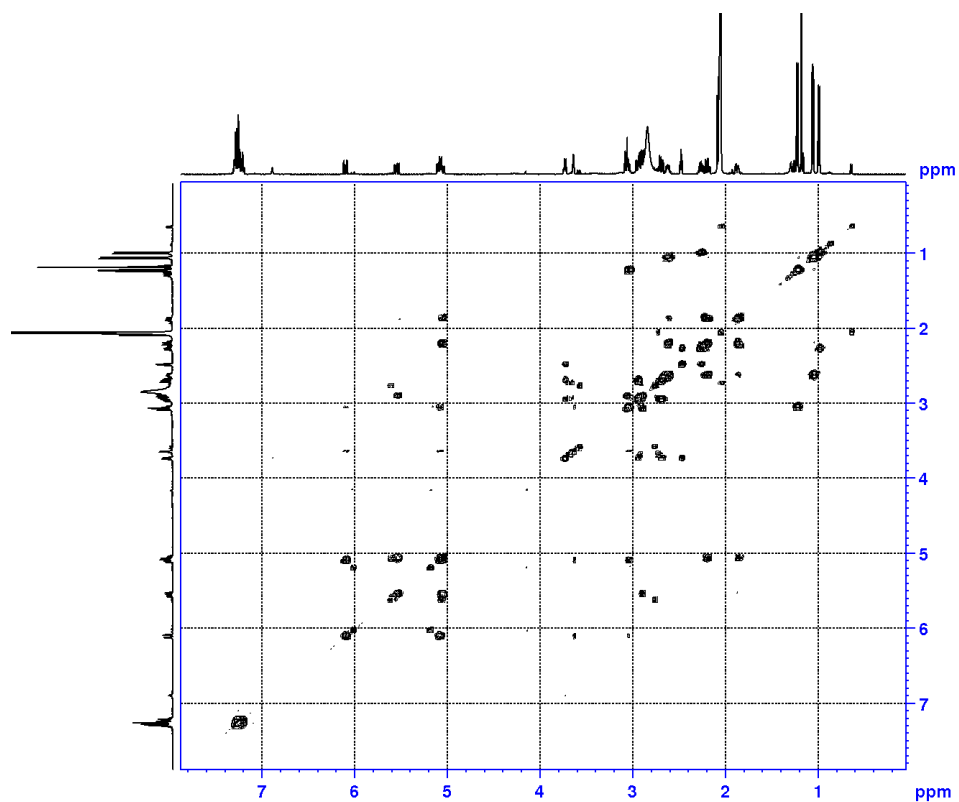


Figure S63. COSY spectrum of compound **11** in Acetone- d_6

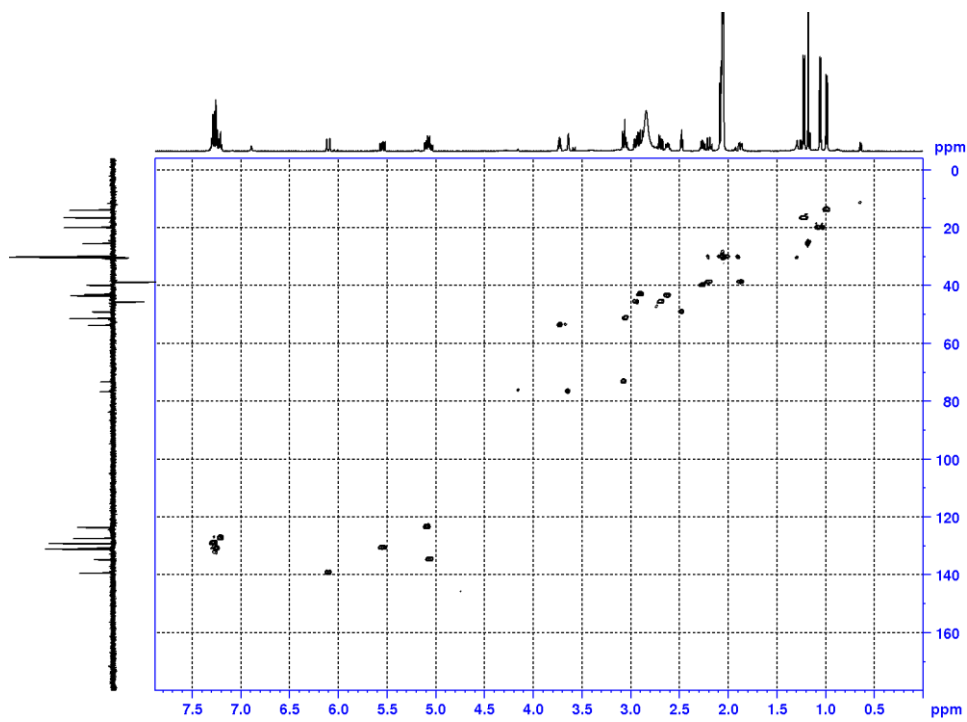


Figure S64. HSQC spectrum of compound **11** in Acetone- d_6

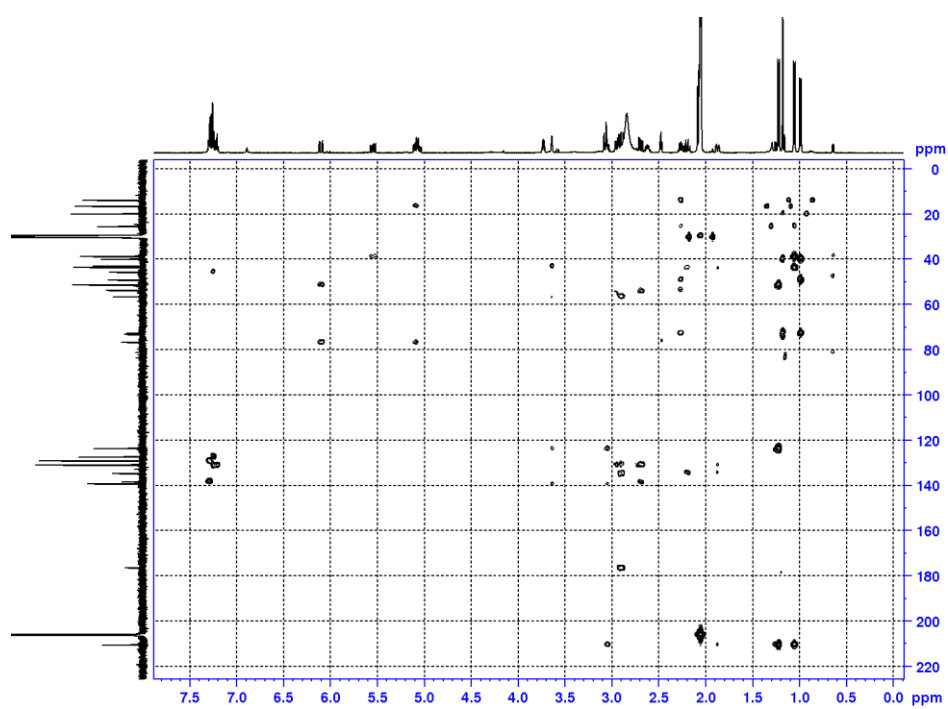


Figure S65. HMBC spectrum of compound **11** in Acetone- d_6

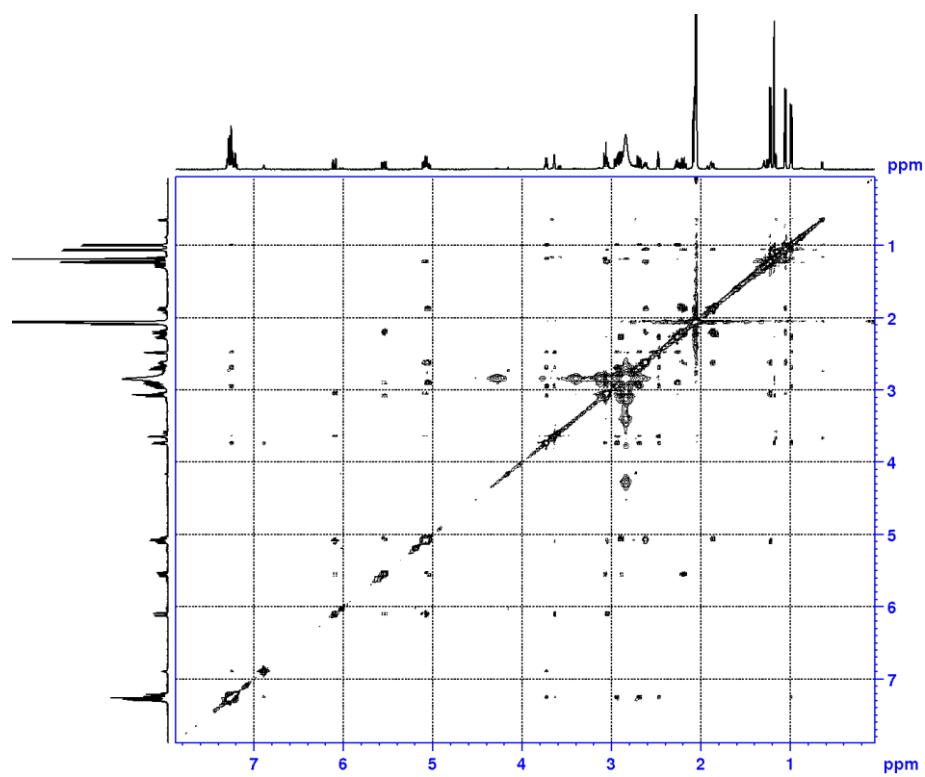


Figure S66. NOESY spectrum of compound **11** in Acetone- d_6

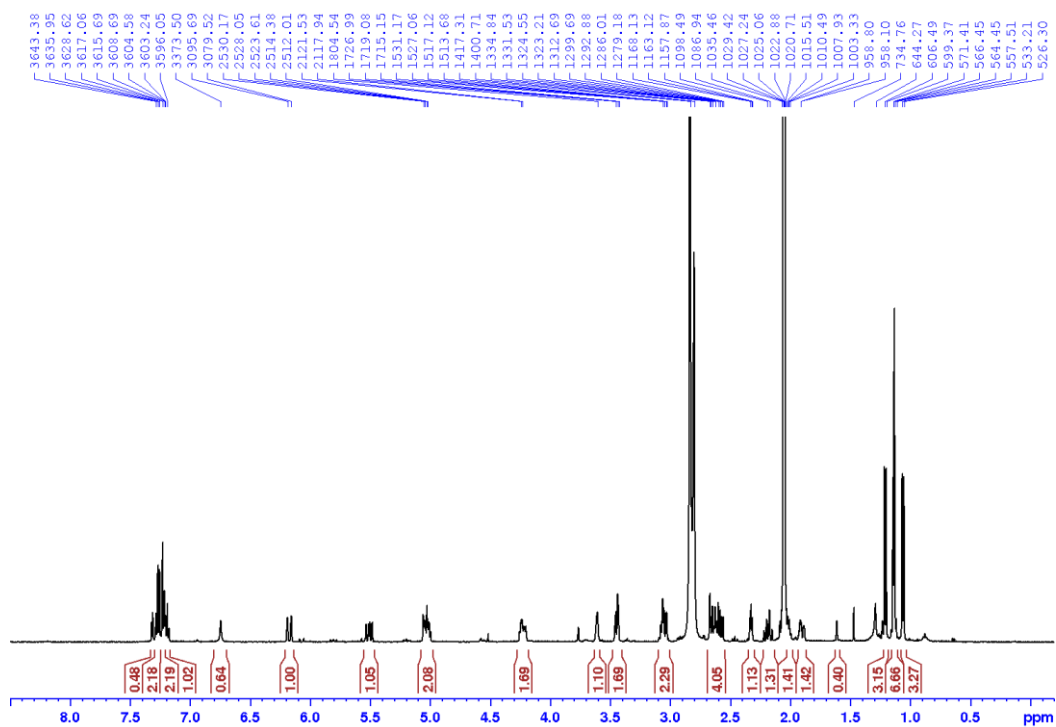


Figure S67. ^1H NMR spectrum of compound **12** in Acetone- d_6

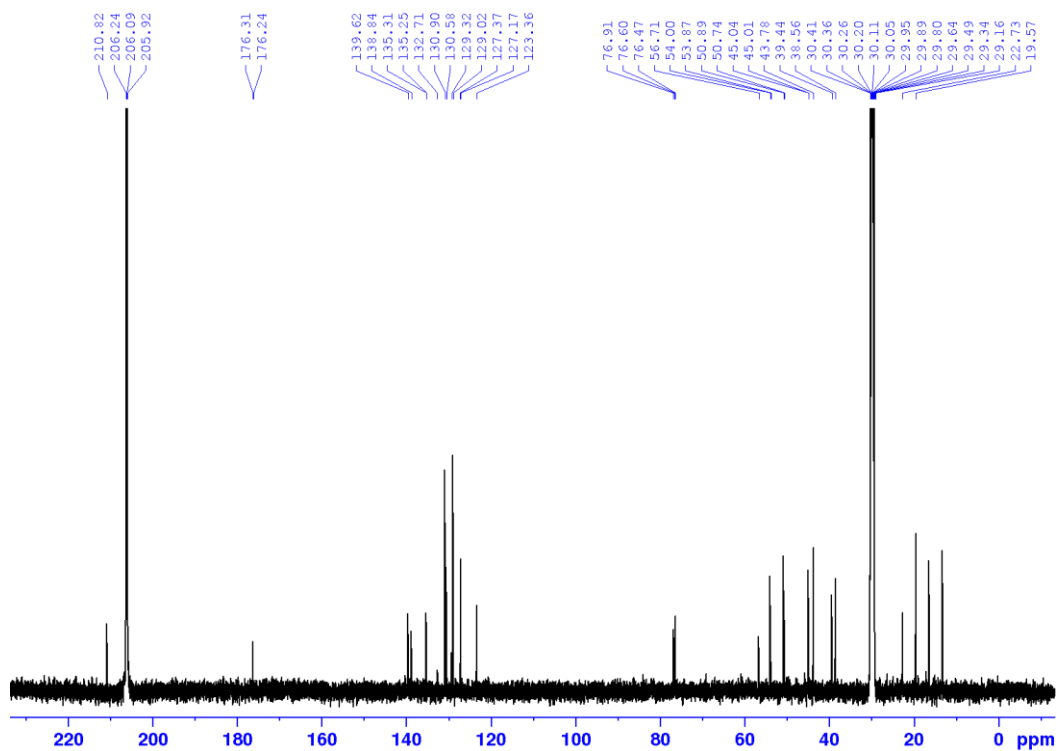


Figure S68. ^{13}C NMR spectrum of compound **12** in Acetone- d_6

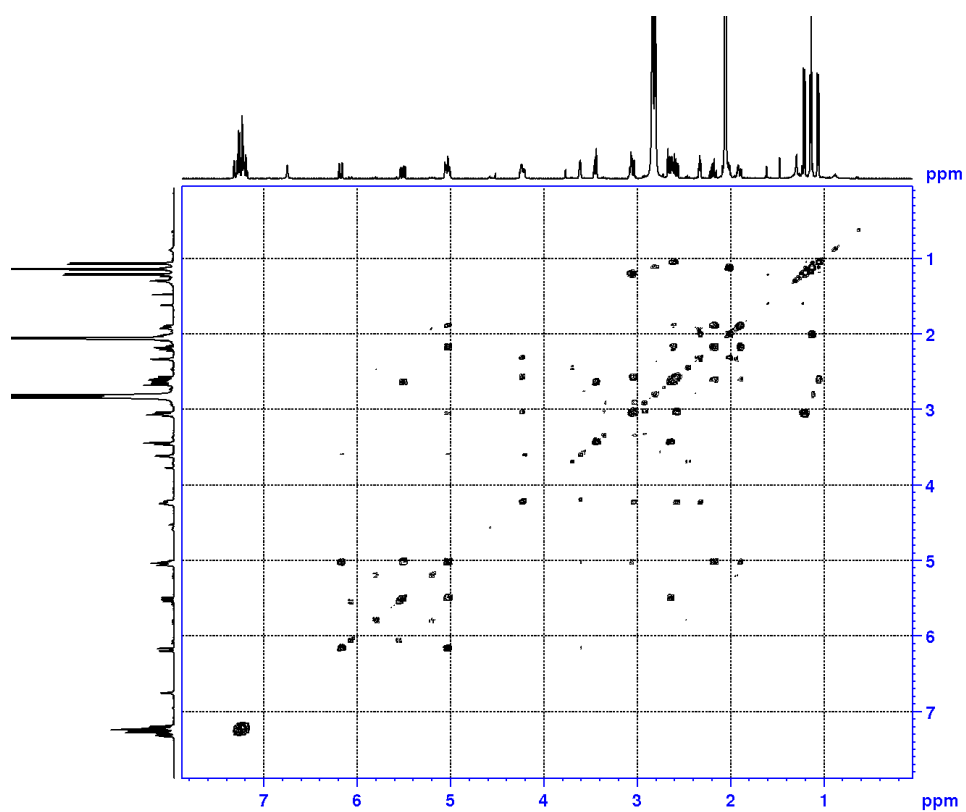


Figure S69. COSY spectrum of compound **12** in Acetone- d_6

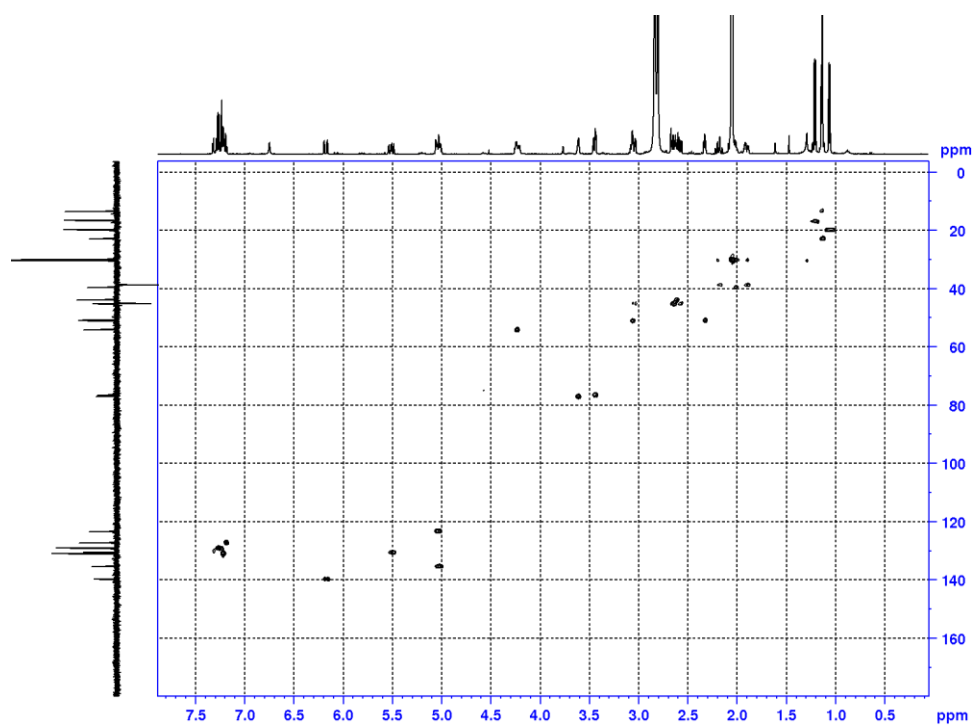


Figure S70. HSQC spectrum of compound **12** in Acetone- d_6

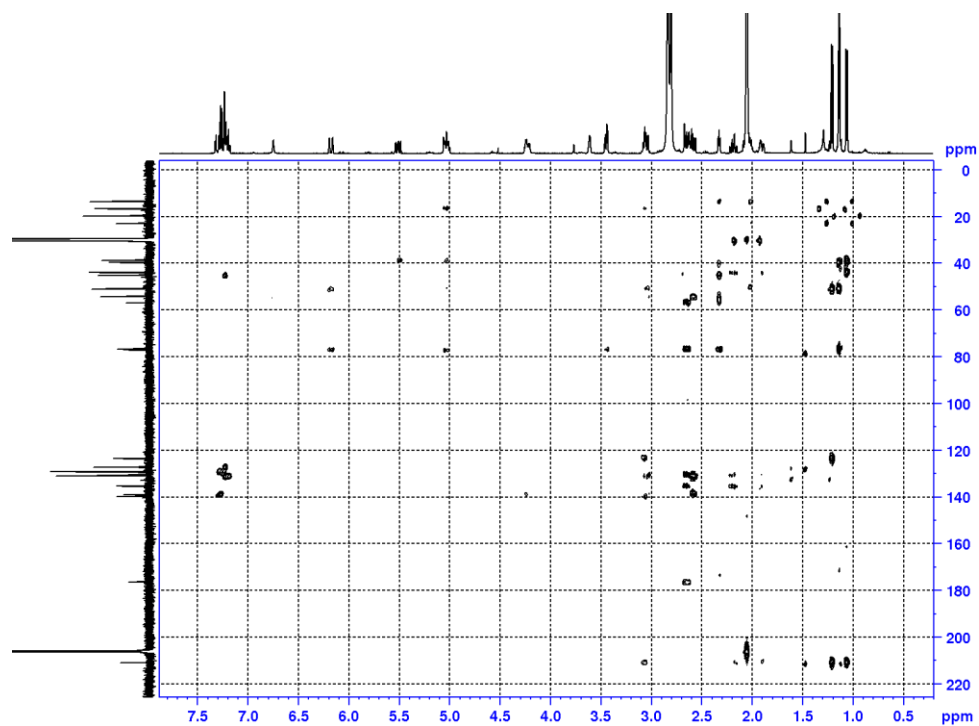


Figure S71. HMBC spectrum of compound **12** in Acetone- d_6

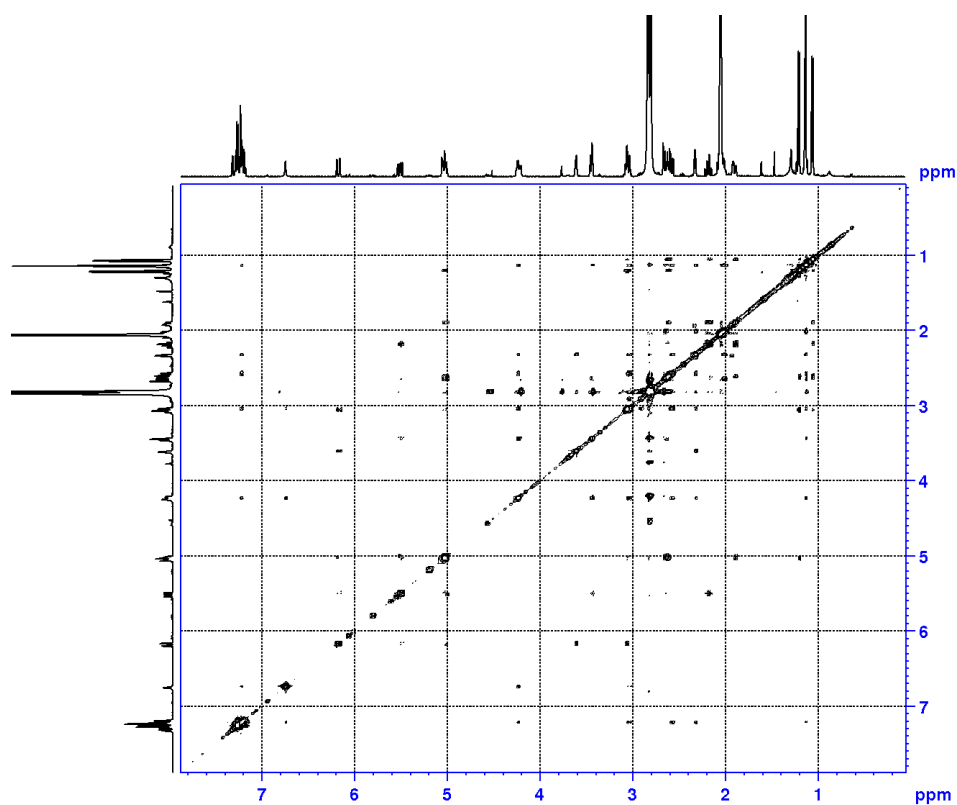


Figure S72. NOESY spectrum of compound **12** in Acetone- d_6

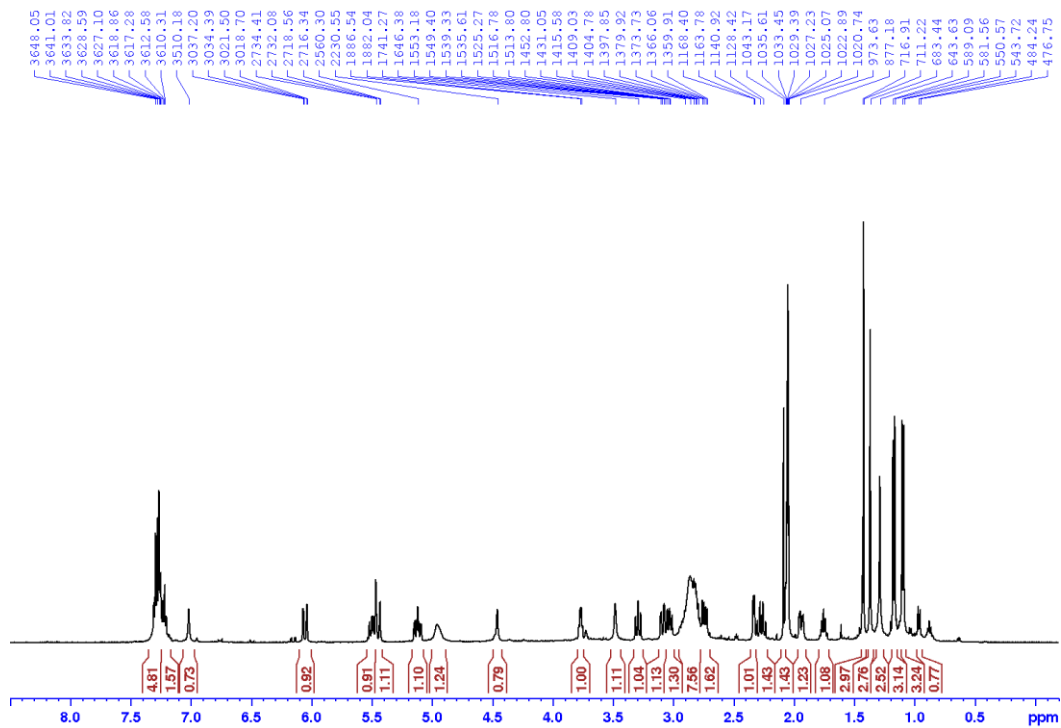


Figure S73. ^1H NMR spectrum of compound **13** in Acetone- d_6

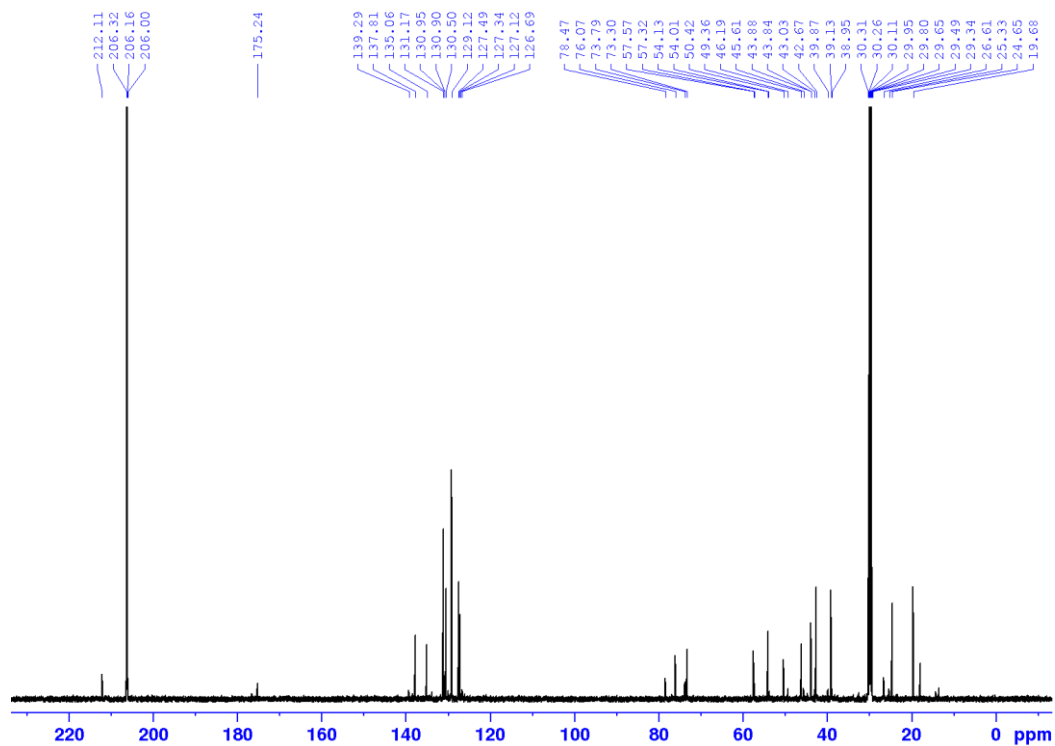


Figure S74. ^{13}C NMR spectrum of compound **13** in Acetone- d_6

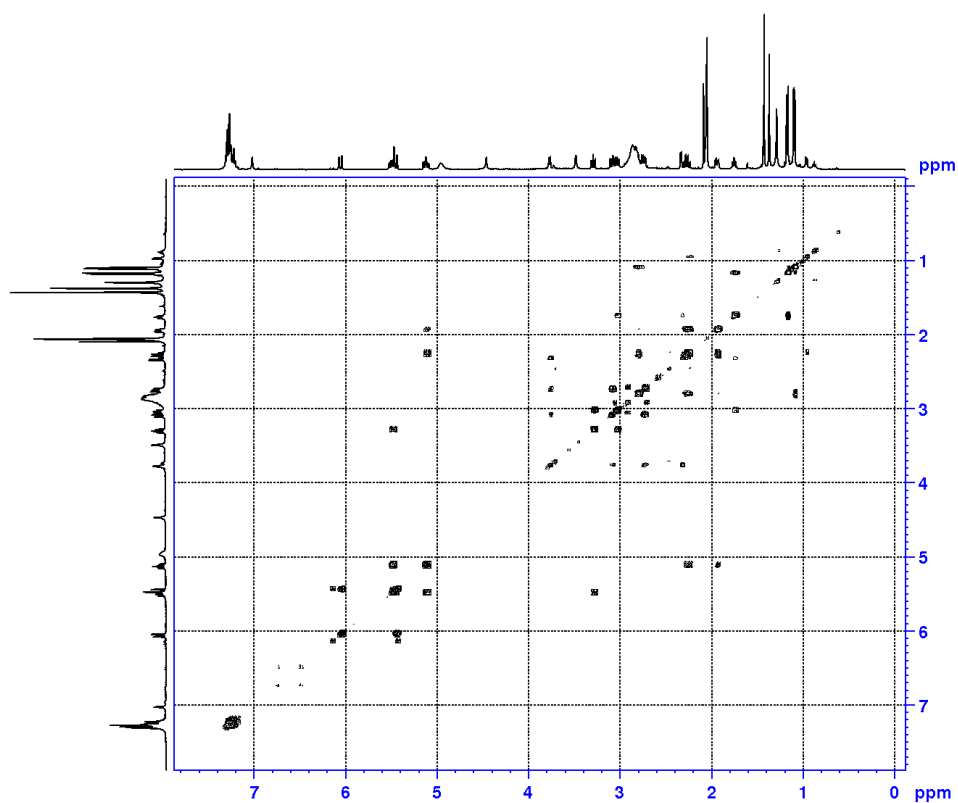


Figure S75. COSY spectrum of compound **13** in Acetone- d_6

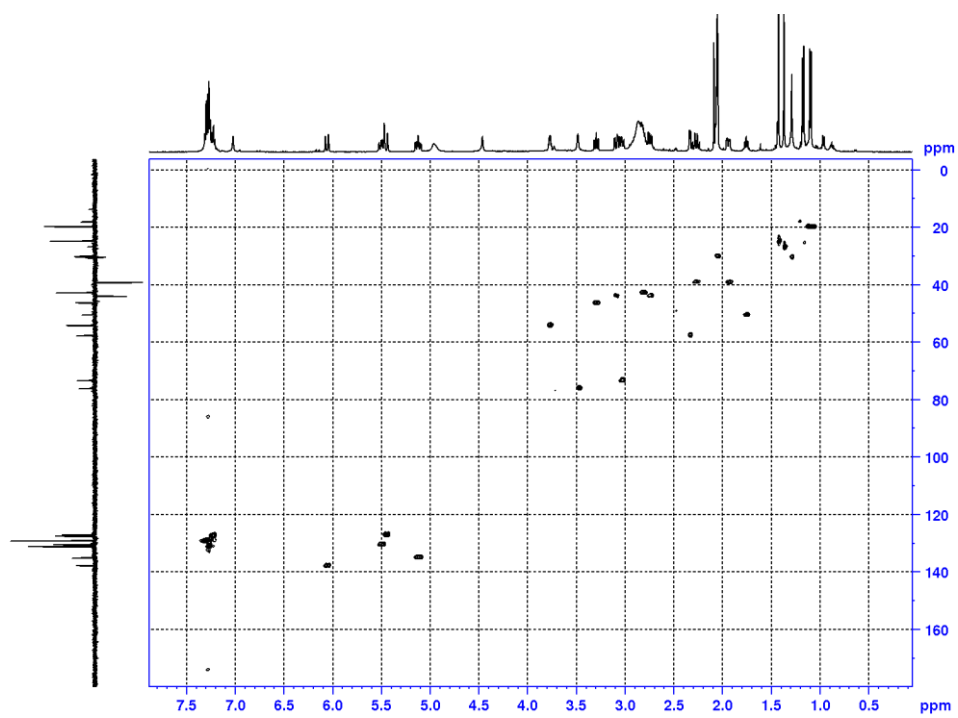


Figure S76. HSQC spectrum of compound **13** in Acetone- d_6

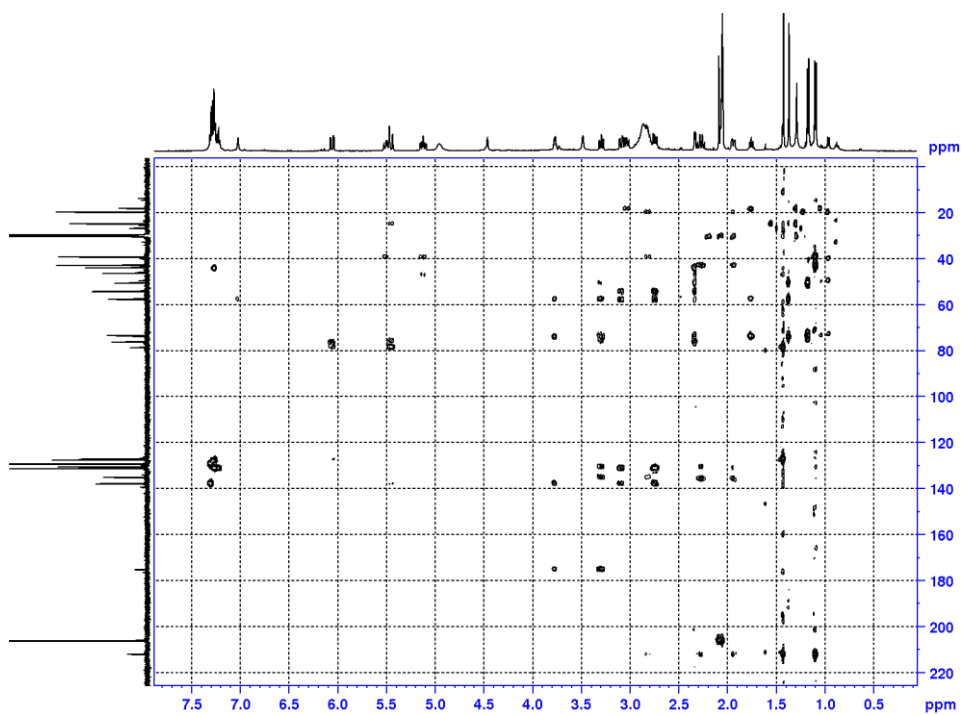


Figure S77. HMBC spectrum of compound **13** in Acetone-*d*₆

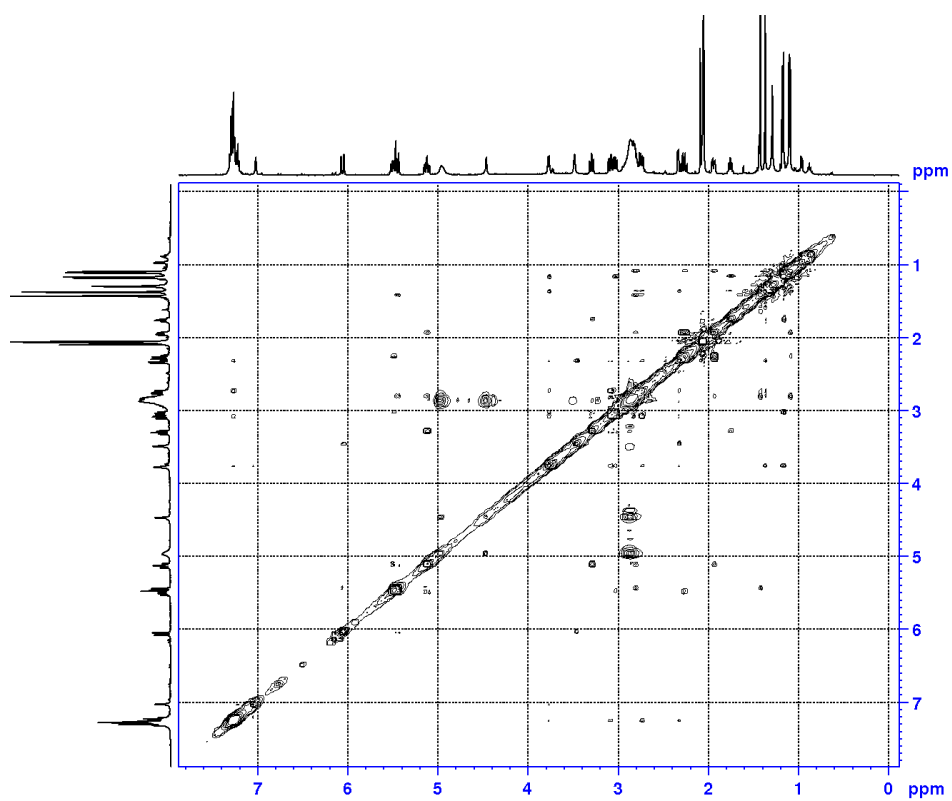


Figure S78. NOESY spectrum of compound **13** in Acetone-*d*₆

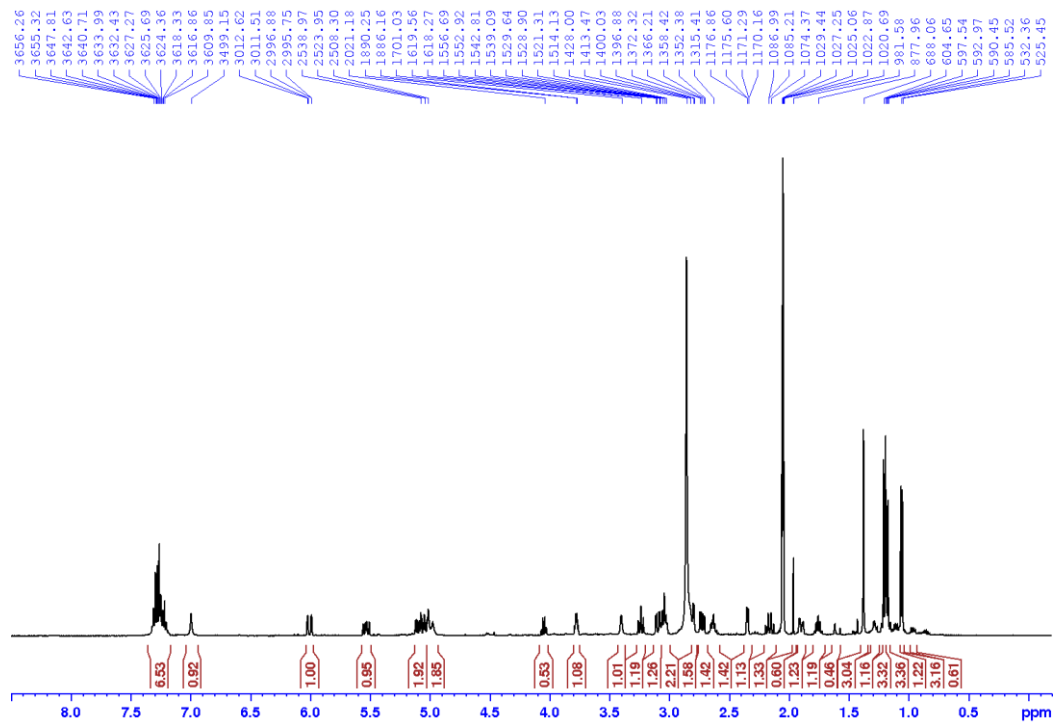


Figure S79. ^1H NMR spectrum of compound **14** in Acetone- d_6

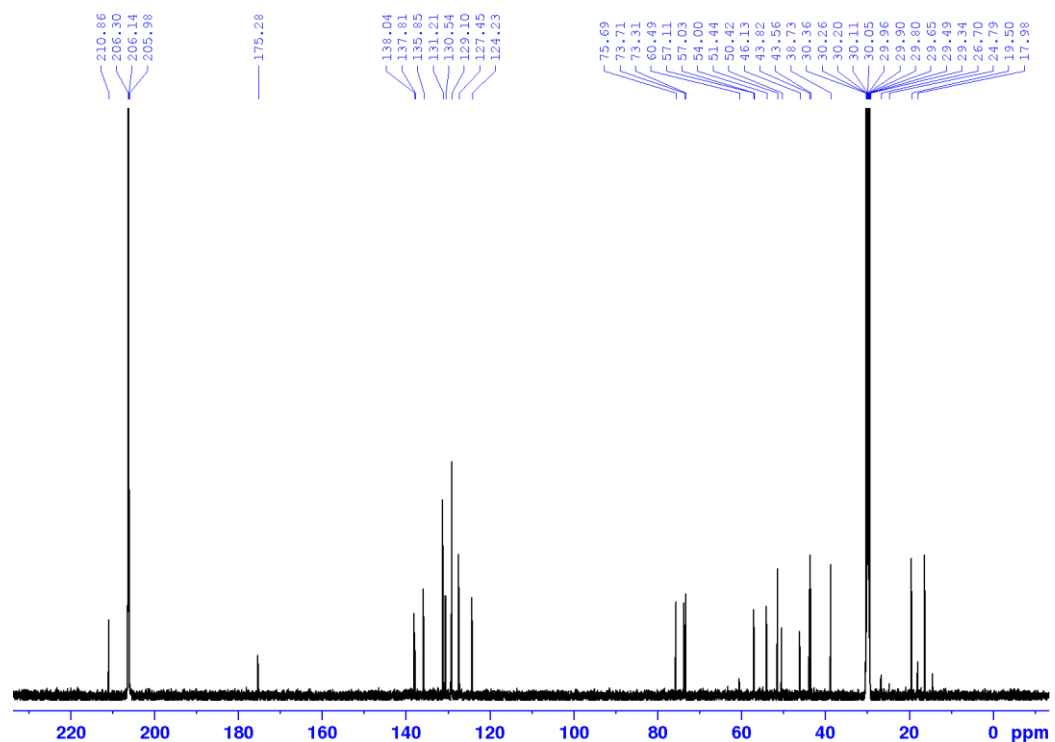


Figure S80. ^{13}C NMR spectrum of compound **14** in Acetone- d_6

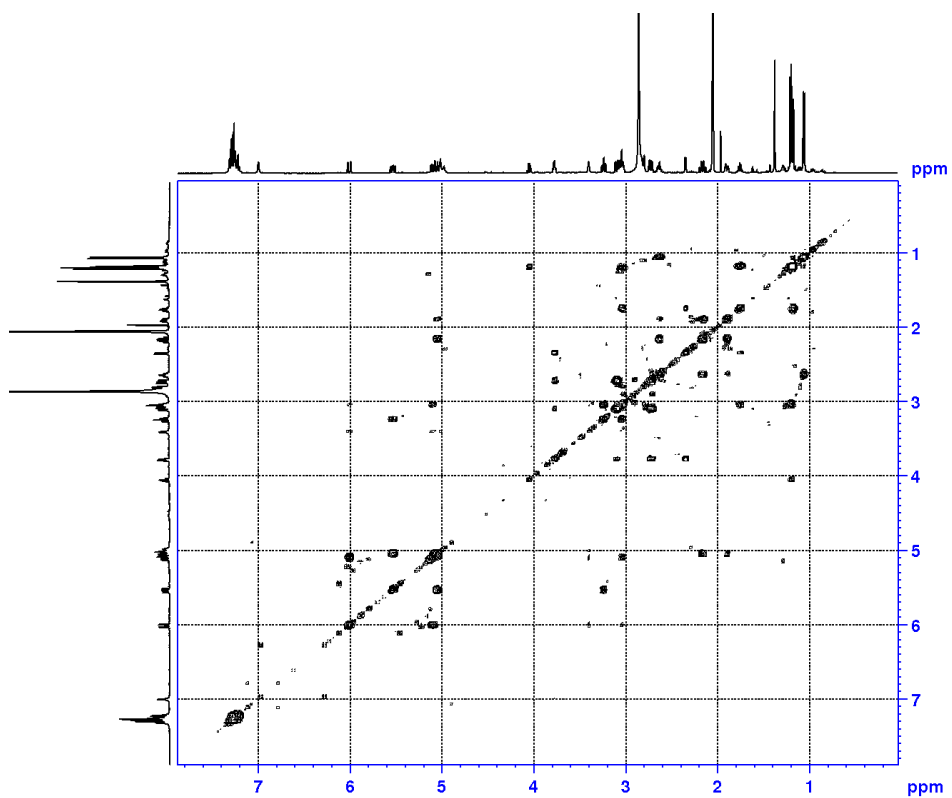


Figure S81. COSY spectrum of compound **14** in Acetone- d_6

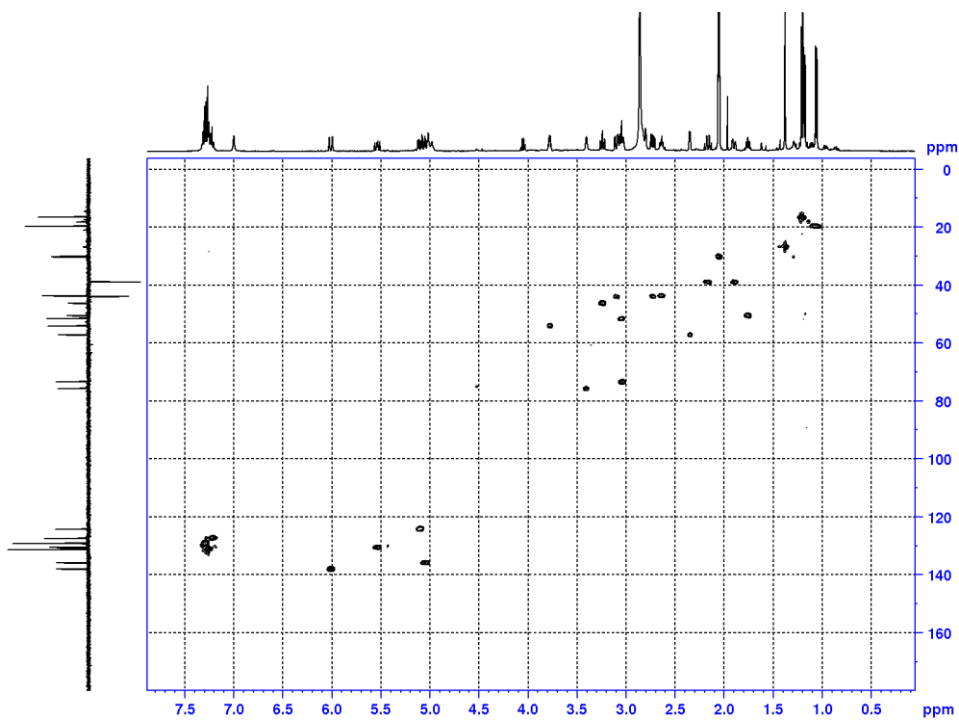


Figure S82. HSQC spectrum of compound **14** in Acetone- d_6

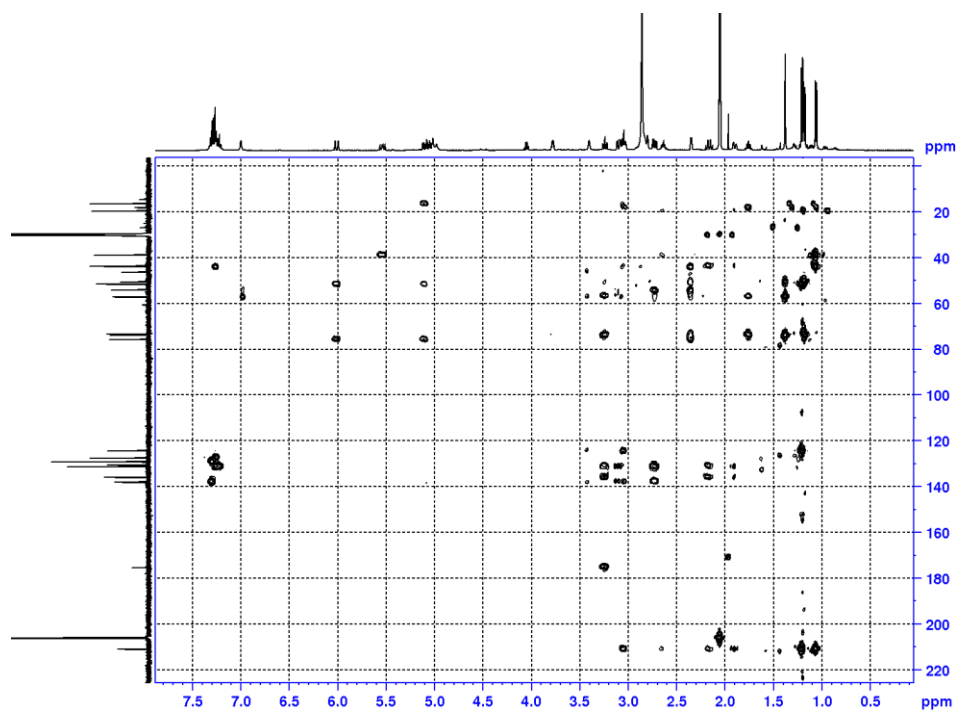


Figure S83. HMBC spectrum of compound **14** in Acetone- d_6

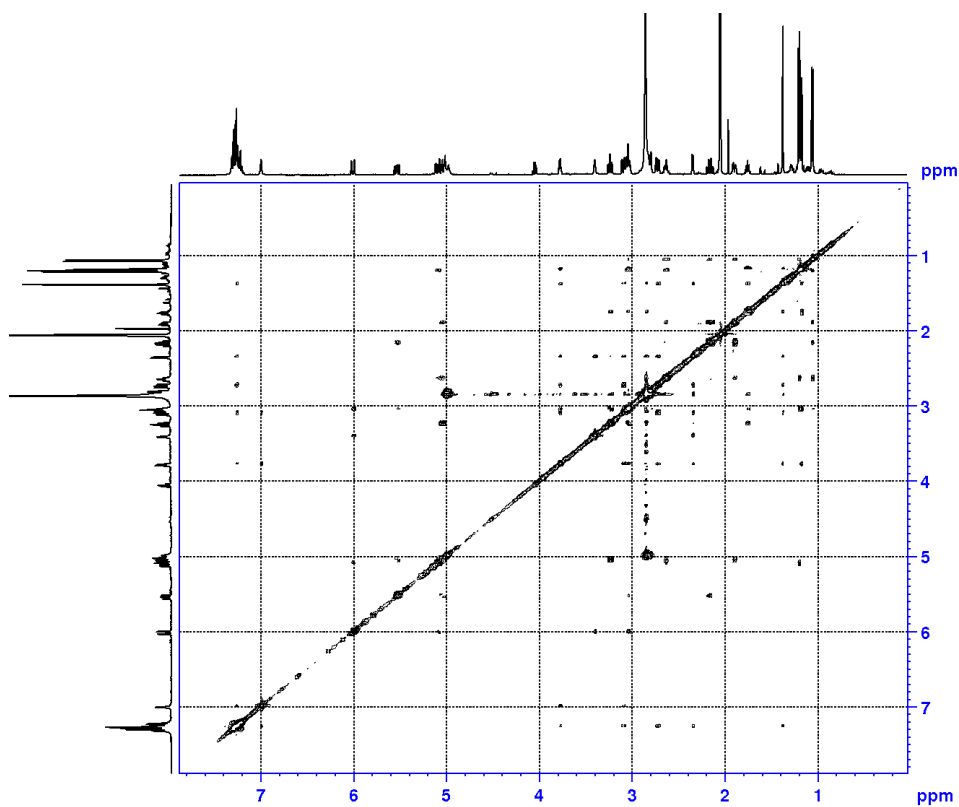


Figure S84. NOESY spectrum of compound **14** in Acetone- d_6

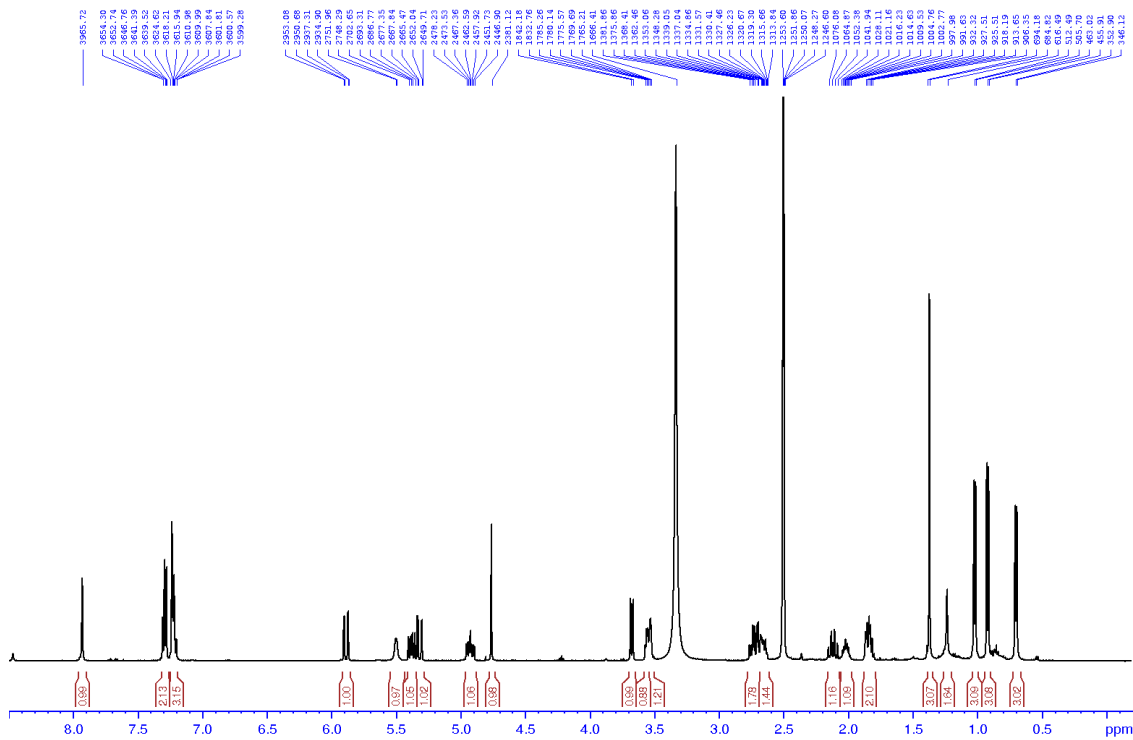


Figure S85. ^1H NMR spectrum of compound **15** in $\text{DMSO-}d_6$

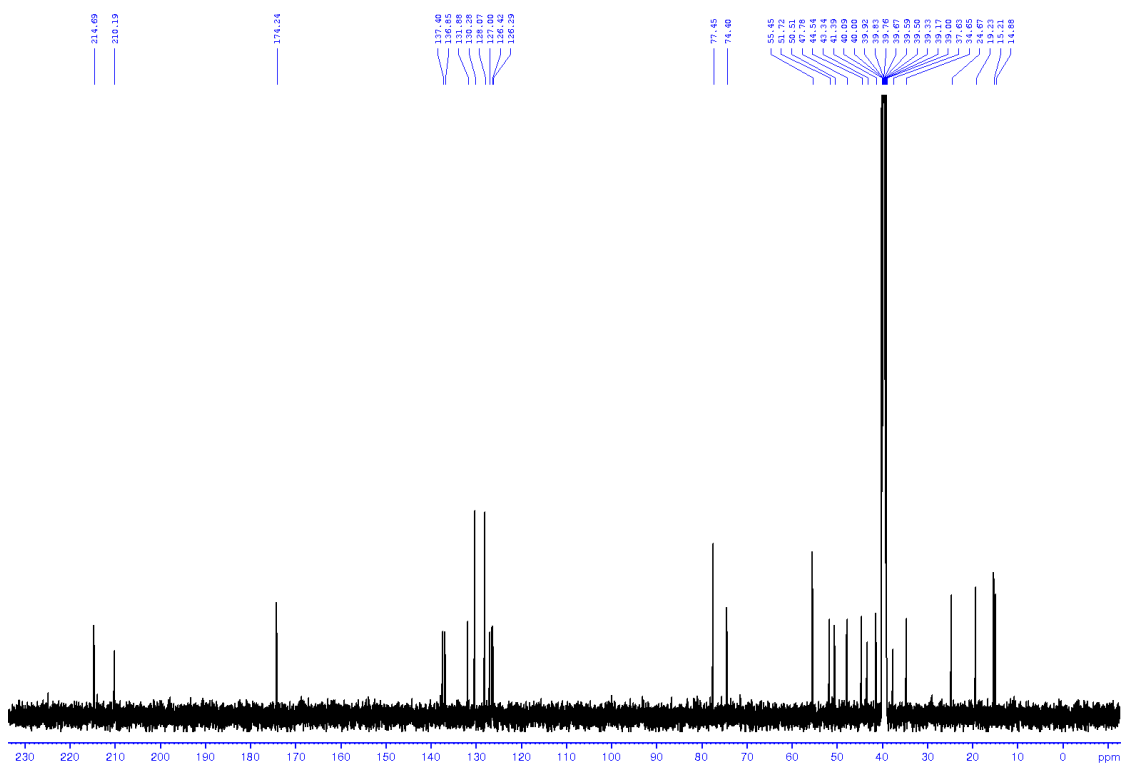


Figure S86. ^{13}C NMR spectrum of compound **15** in $\text{DMSO-}d_6$

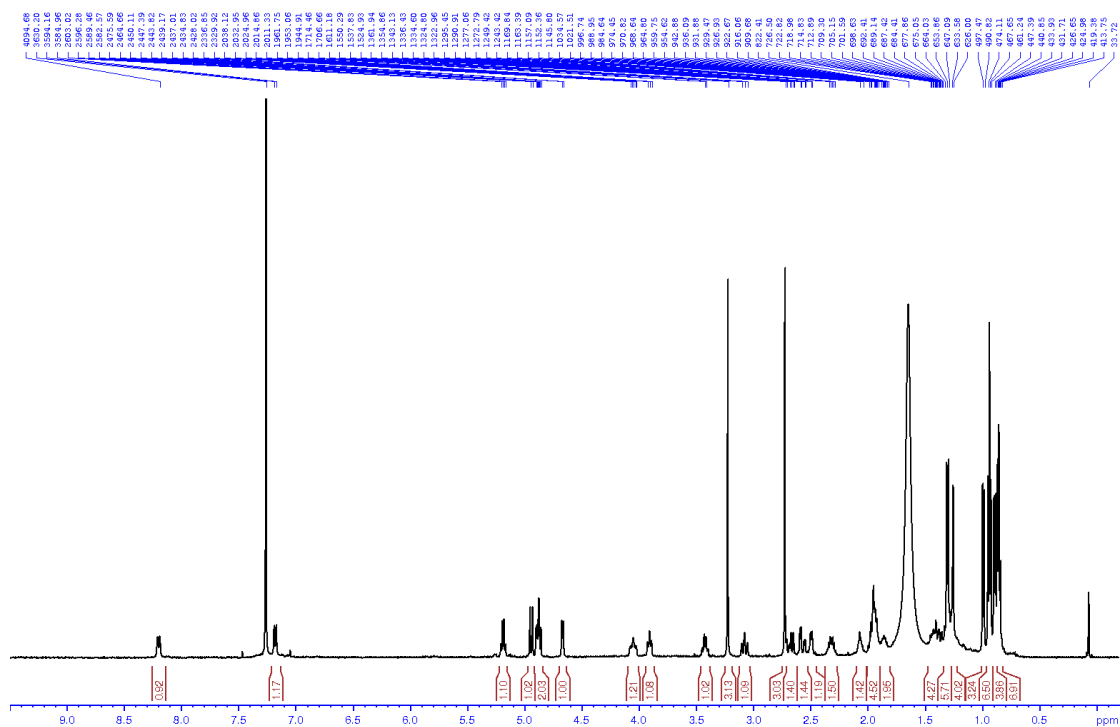


Figure S95. ^1H NMR spectrum of destruxins B in CDCl_3

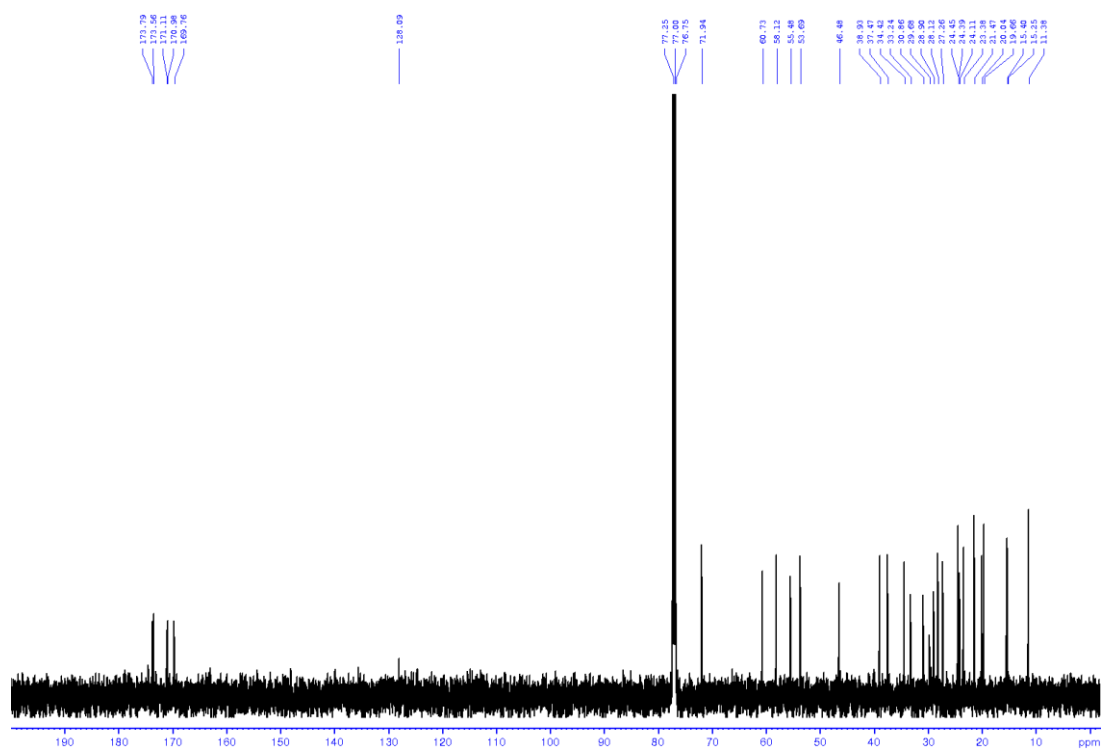


Figure S96. ^{13}C NMR spectrum of destruxins B in CDCl_3

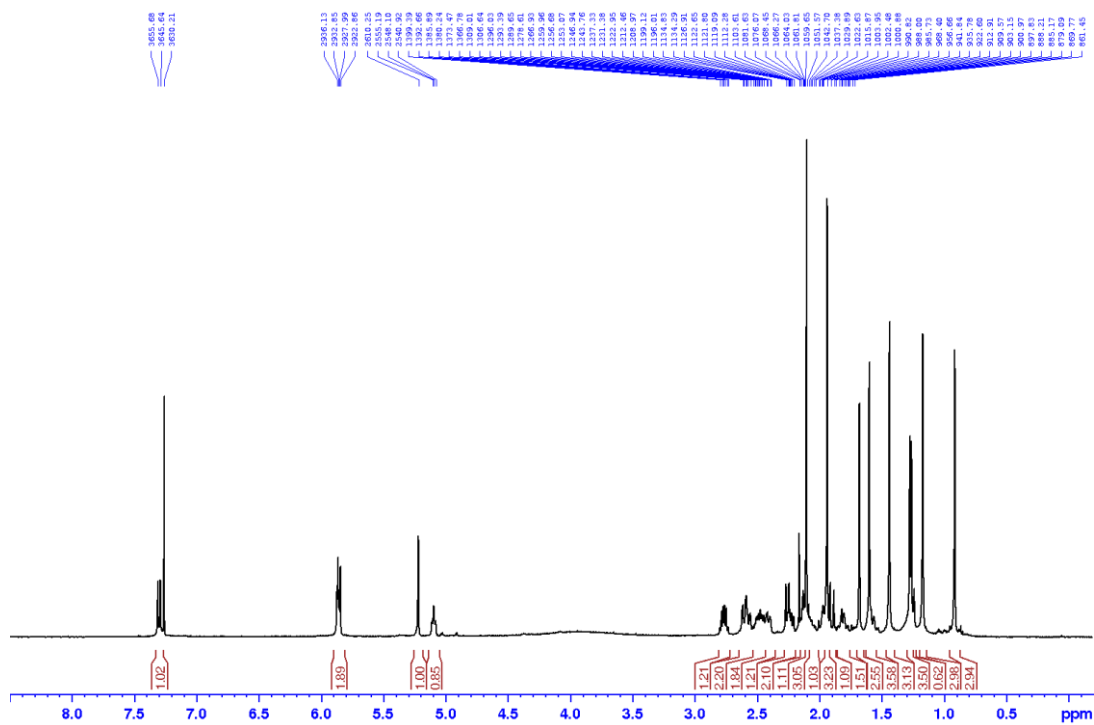


Figure S97. ¹H NMR spectrum of helvolic acid in CDCl₃

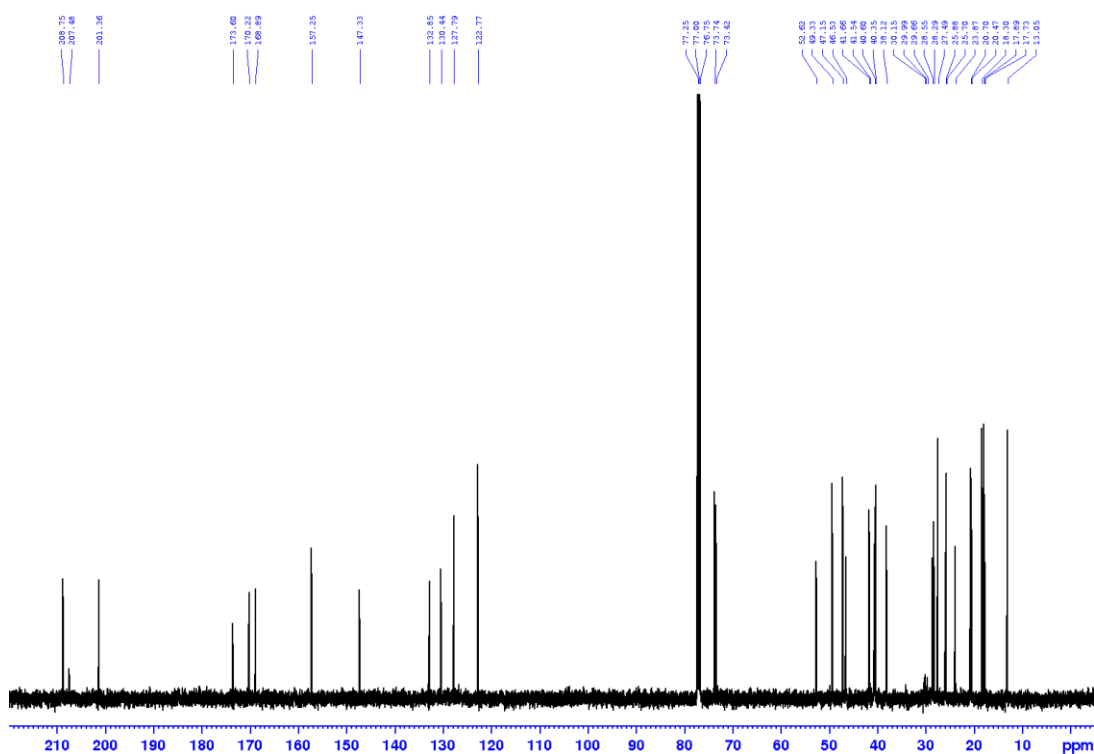


Figure S98. ¹³C NMR spectrum of helvolic acid in CDCl₃

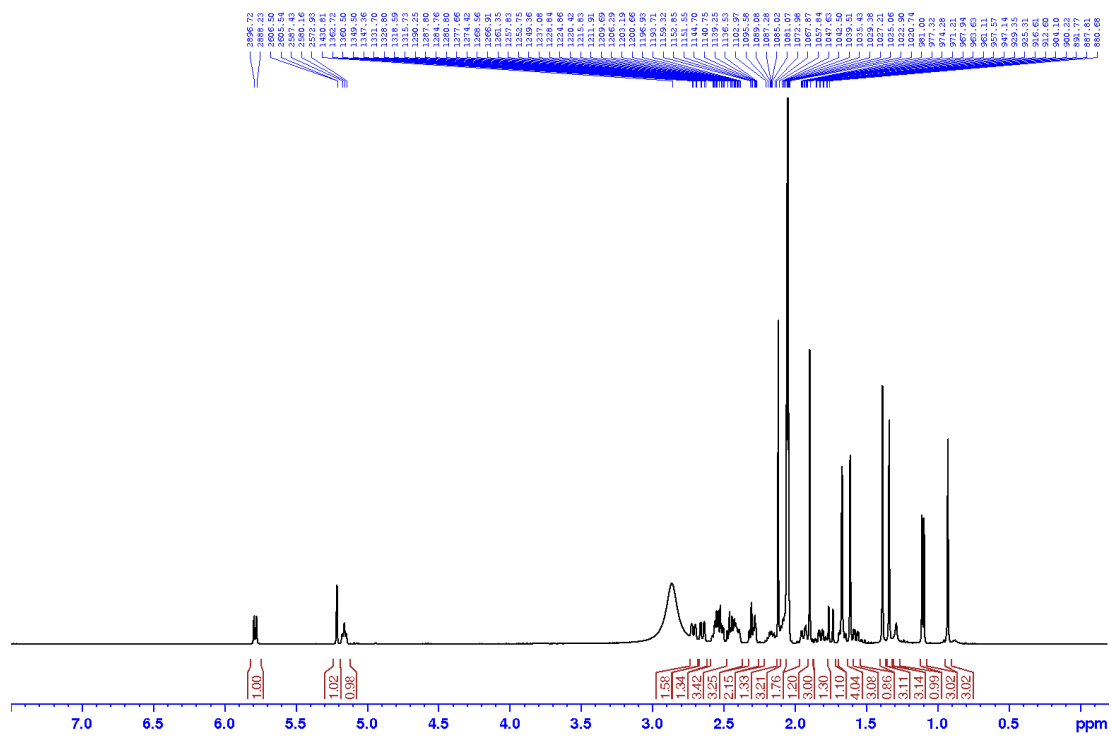


Figure S99. ^1H NMR spectrum of 1,2-dihydrohevoic acid in Acetone- d_6

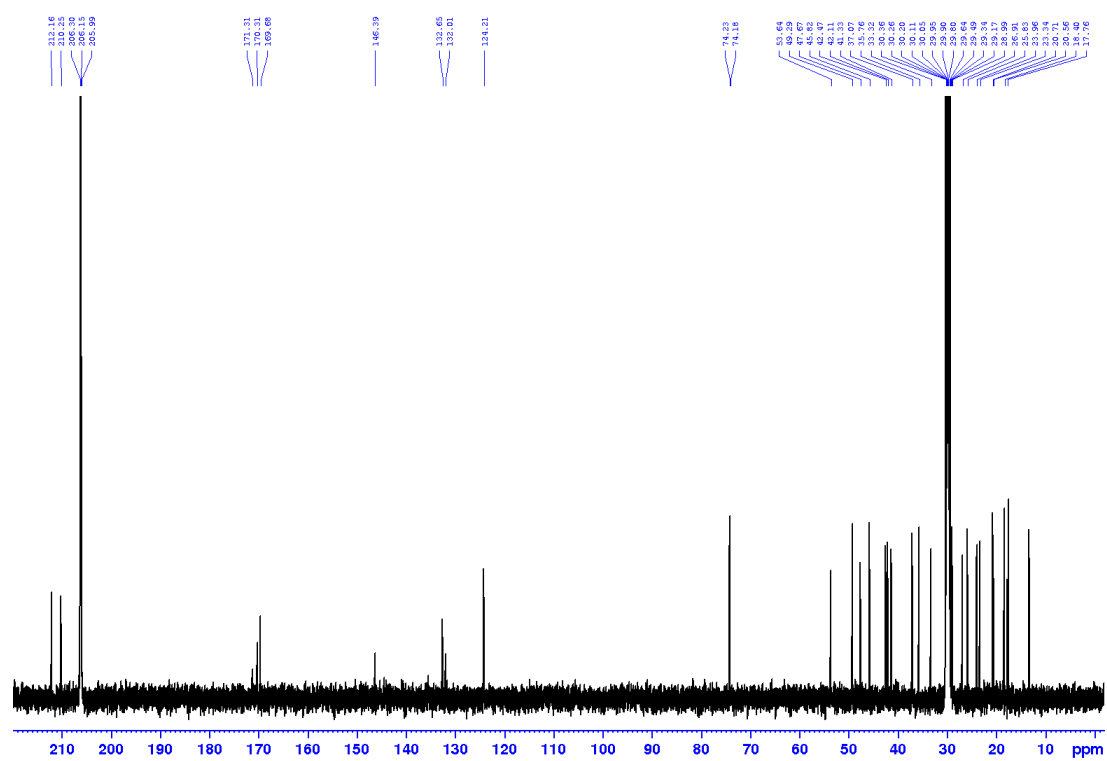


Figure S100. ^{13}C NMR spectrum of 1,2-dihydrohevoic acid in Acetone- d_6

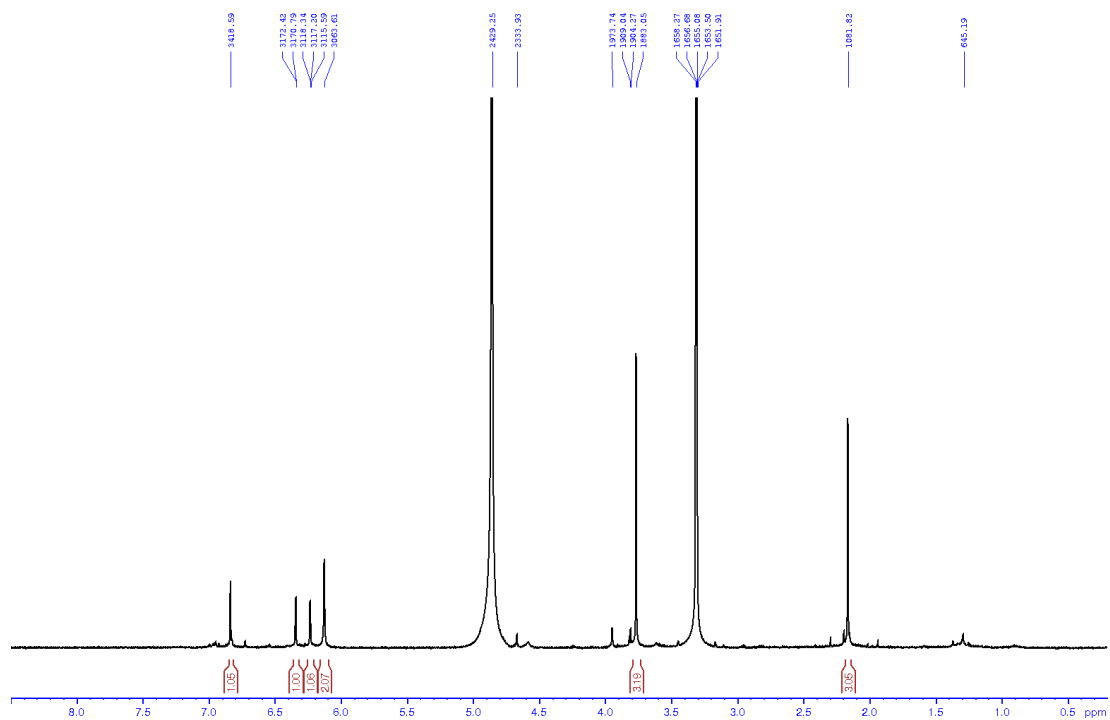


Figure S101. ^1H NMR spectrum of meromuside I in $\text{MeOH-}d_4$

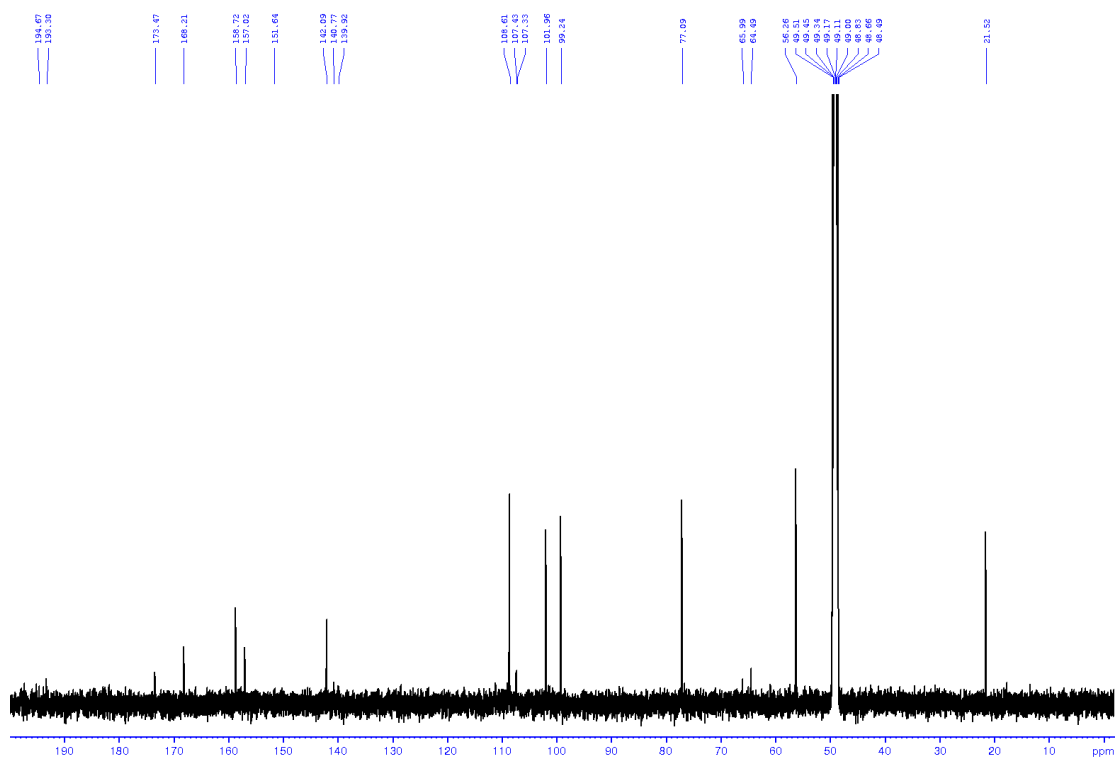


Figure S102. ^{13}C NMR spectrum of meromuside I in $\text{MeOH-}d_4$

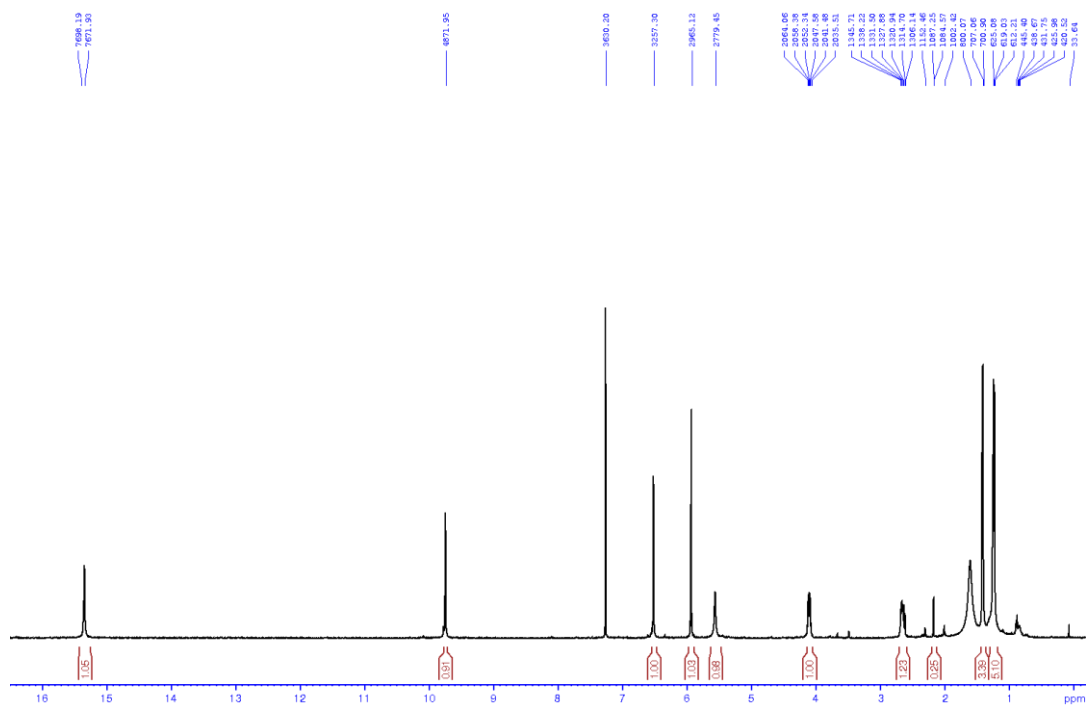


Figure S103. ^1H NMR spectrum of ustilaginoindins D in CDCl_3

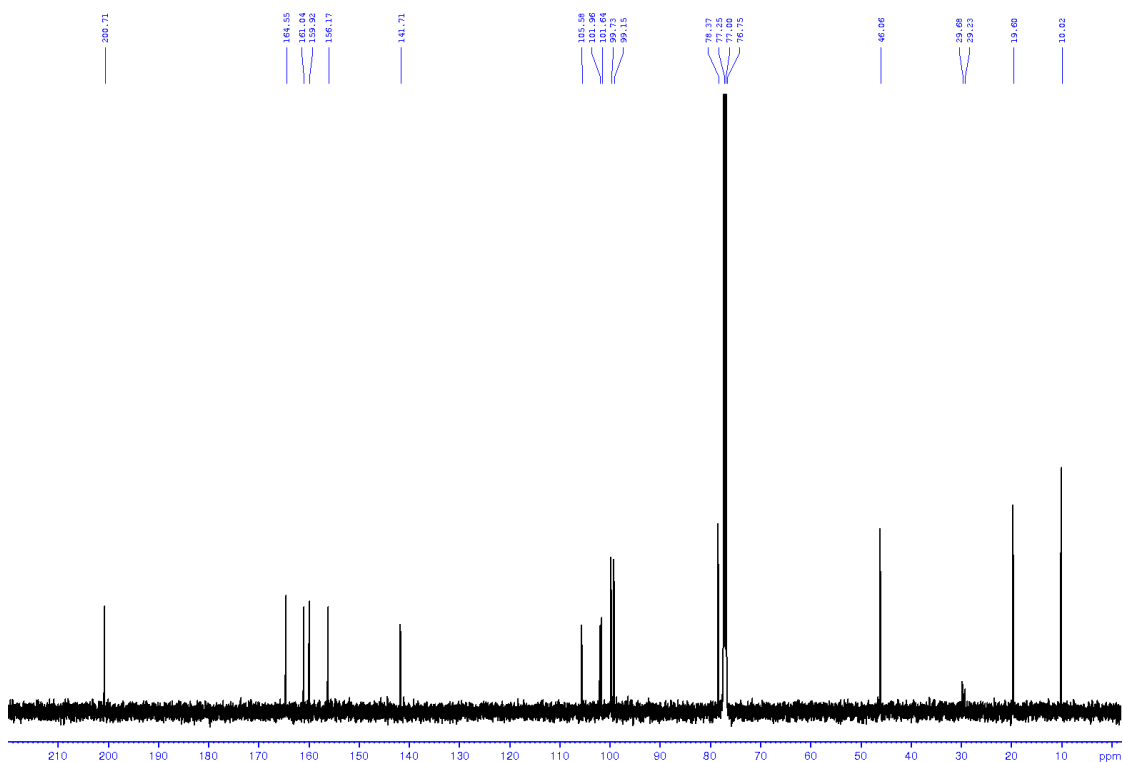


Figure S104. ^{13}C NMR spectrum of ustilaginoindins D in CDCl_3

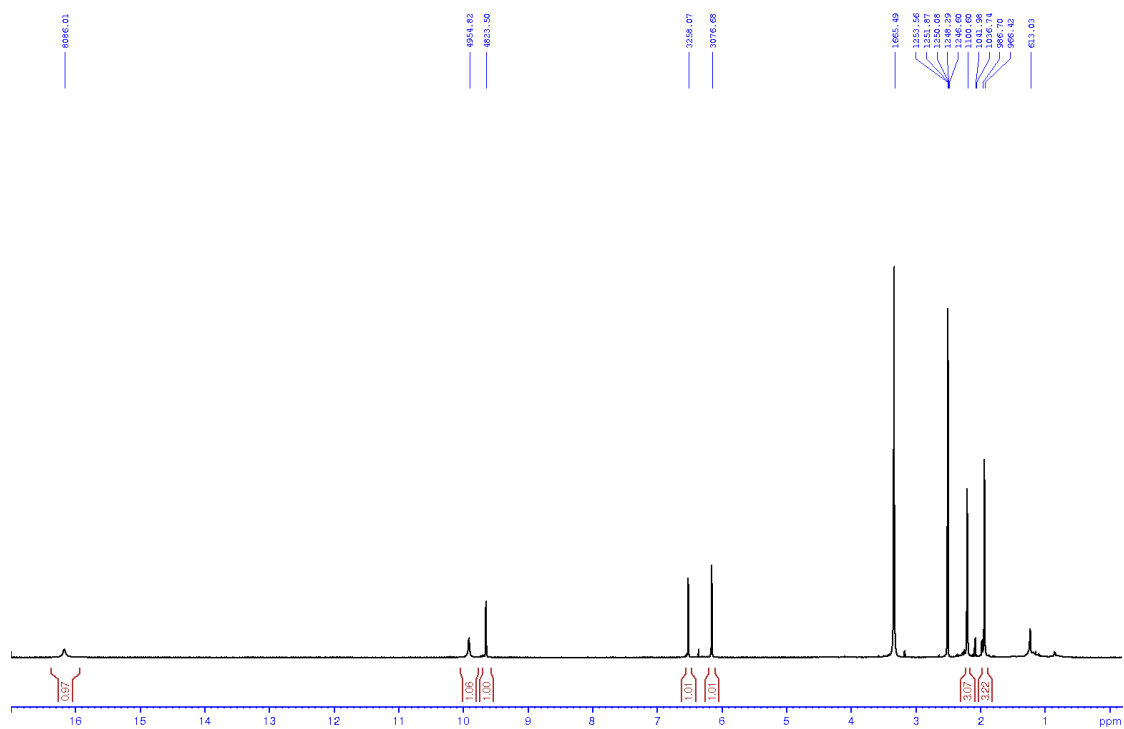


Figure S105. ^1H NMR spectrum of ustilaginoindins K in $\text{DMSO-}d_6$

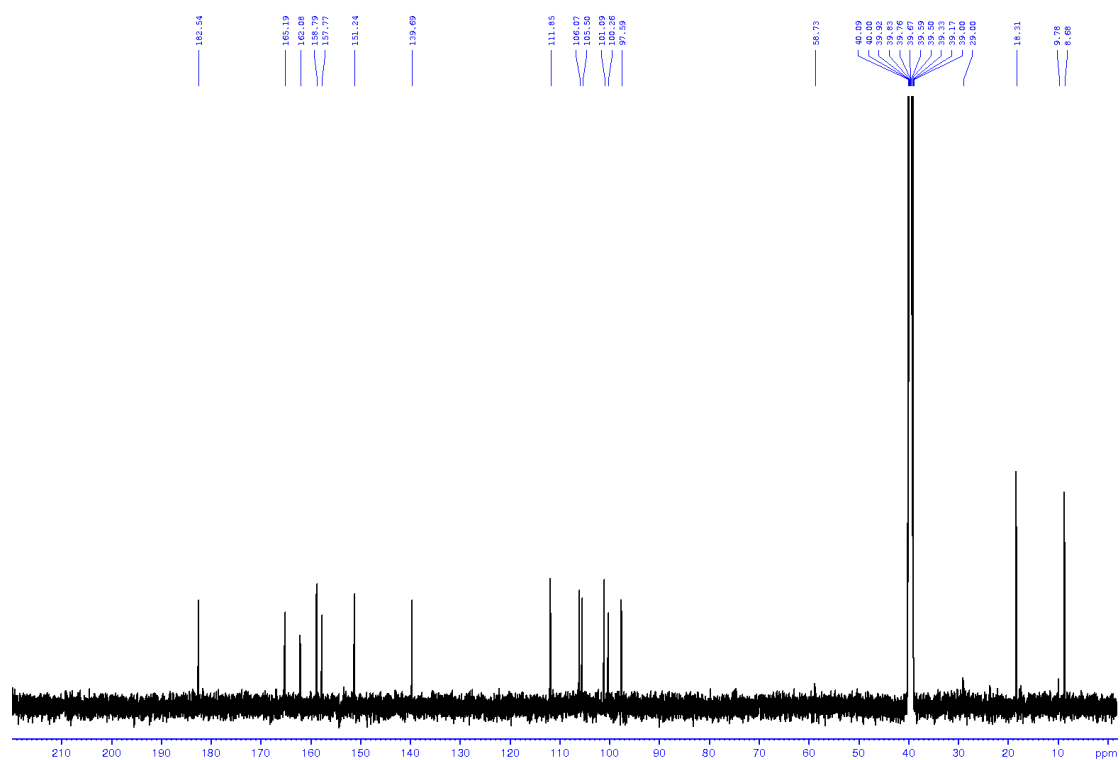


Figure S106. ^{13}C NMR spectrum of ustilaginoindins K in $\text{DMSO-}d_6$

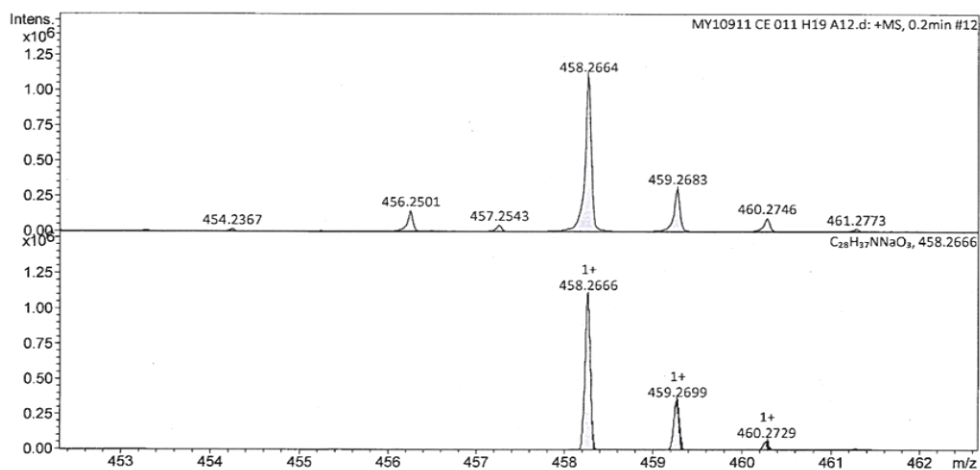


Figure S107. HRESIMS spectrum of compound **1**

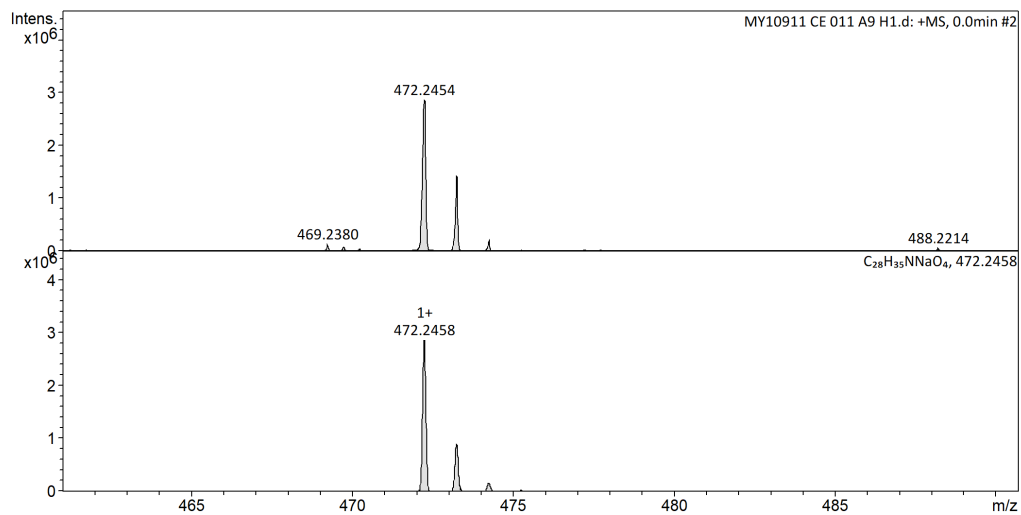


Figure S108. HRESIMS spectrum of compound **2**

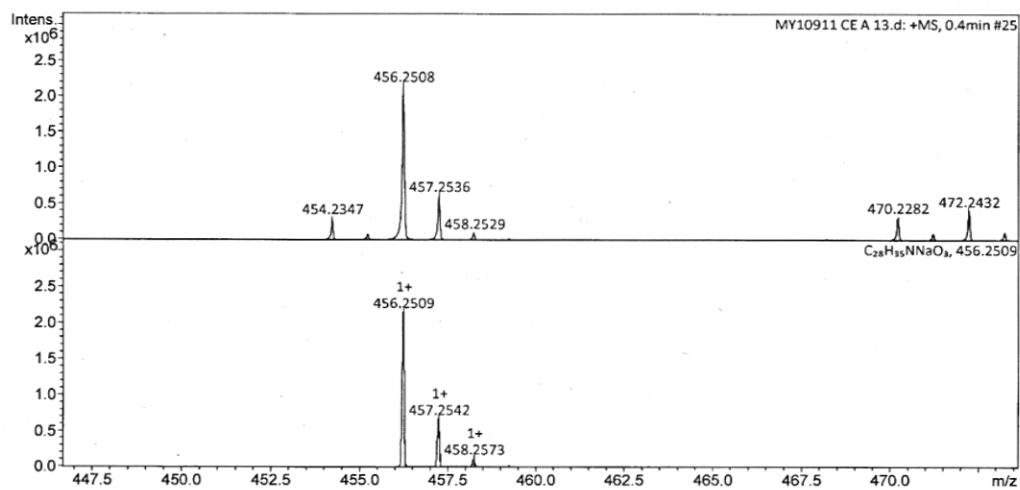


Figure S109. HRESIMS spectrum of compound 3

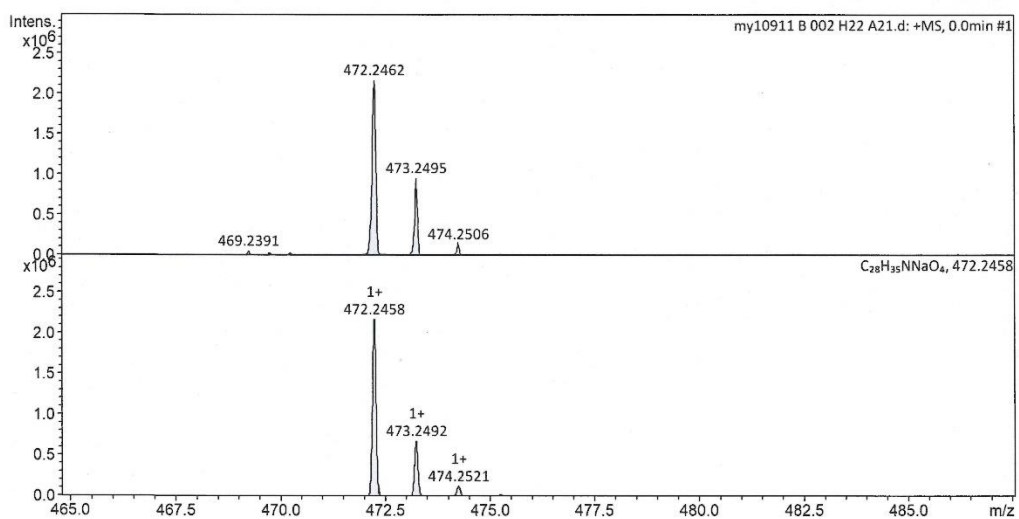


Figure S110. HRESIMS spectrum of compound 4

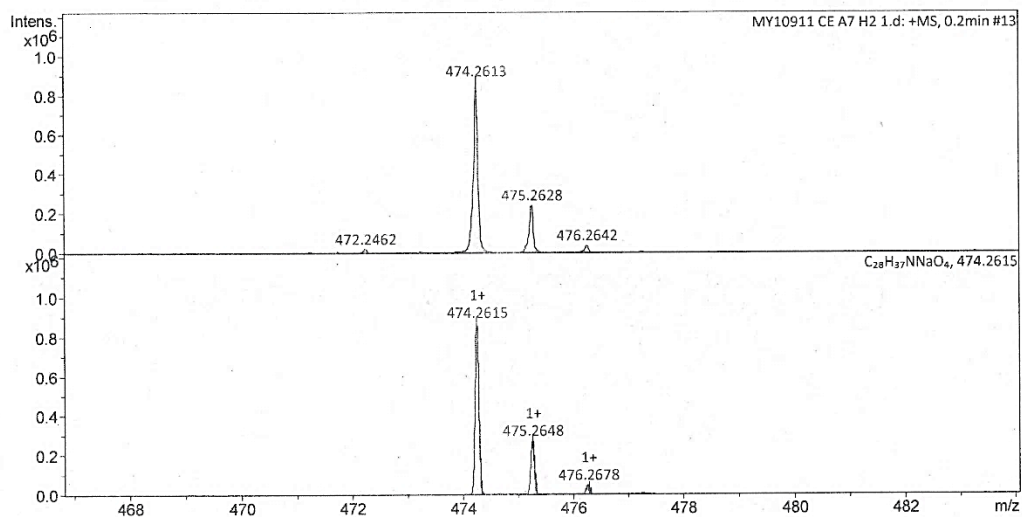


Figure S111. HRESIMS spectrum of compound 5

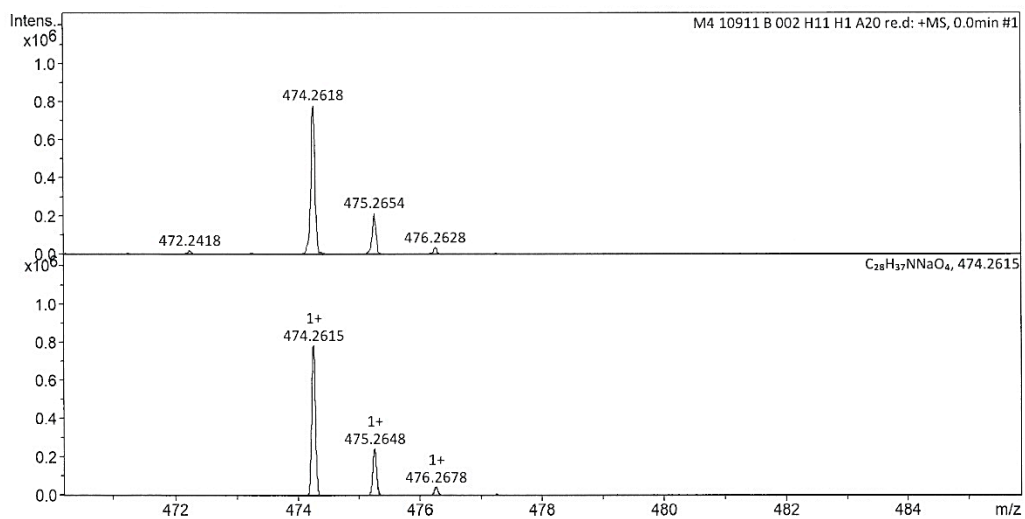


Figure S112. HRESIMS spectrum of compound 6

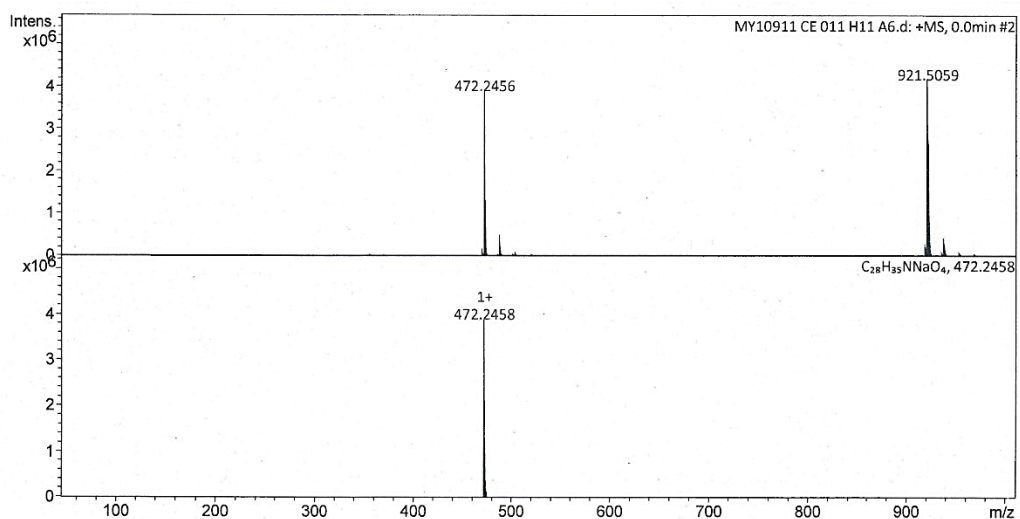


Figure S113. HRESIMS spectrum of compound **7**

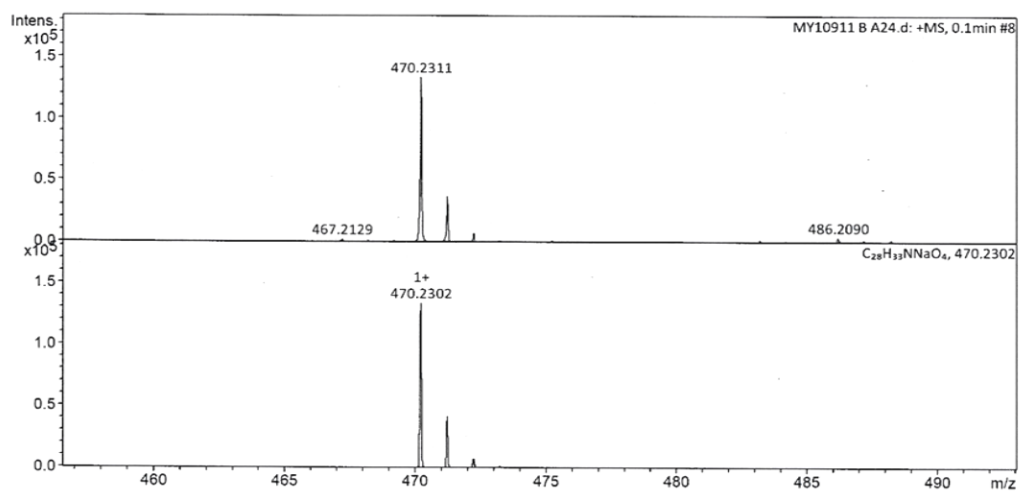


Figure S114. HRESIMS spectrum of compound **8**

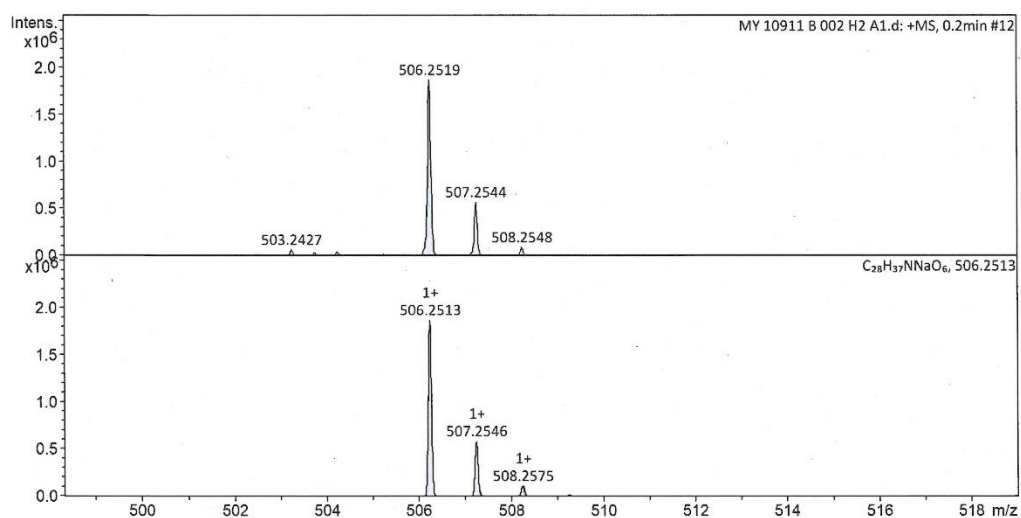


Figure S115. HRESIMS spectrum of compound **9**

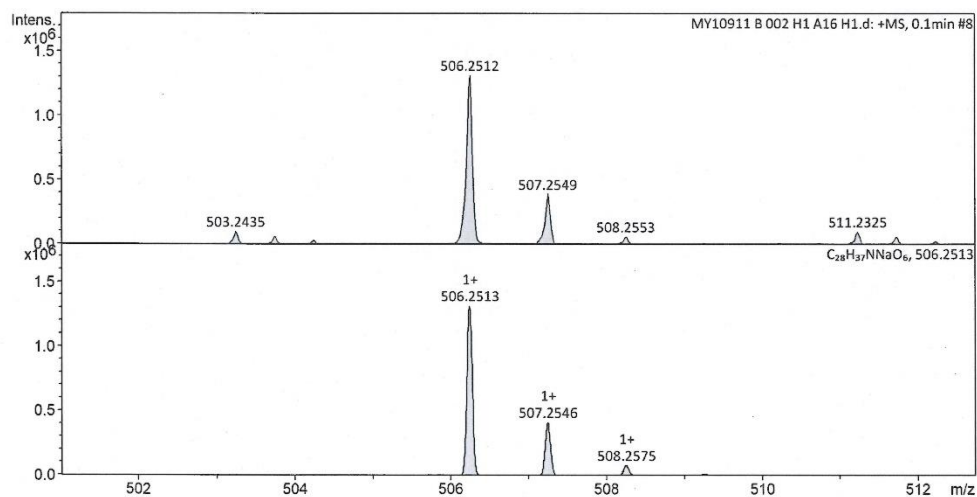


Figure S116. HRESIMS spectrum of compound **10**

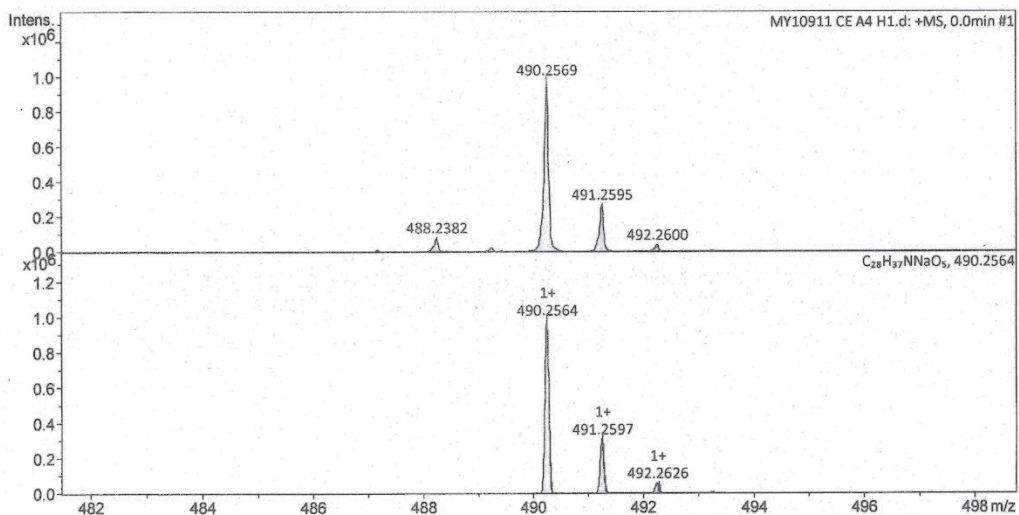


Figure S117. HRESIMS spectrum of compound **11**

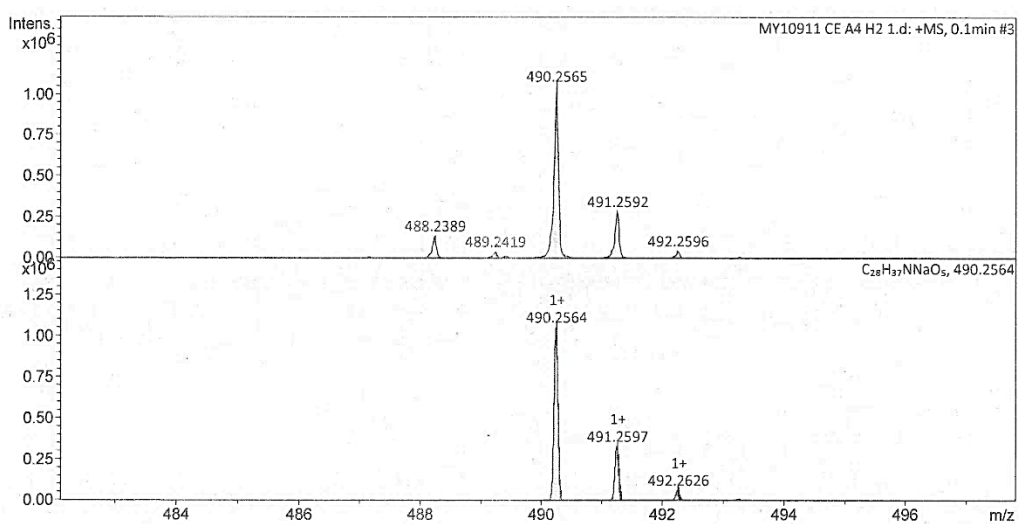


Figure S118. HRESIMS spectrum of compound **12**

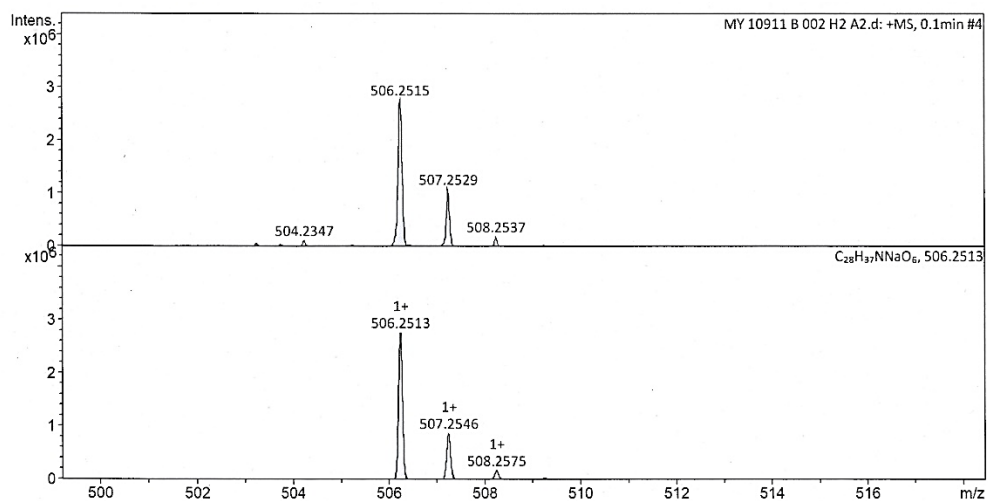


Figure S119. HRESIMS spectrum of compound **13**

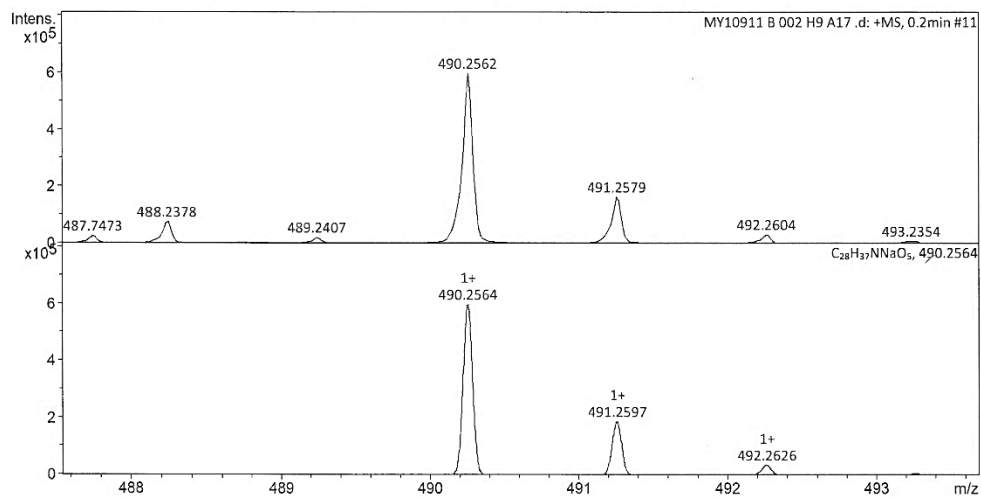


Figure S120. HRESIMS spectrum of compound **14**

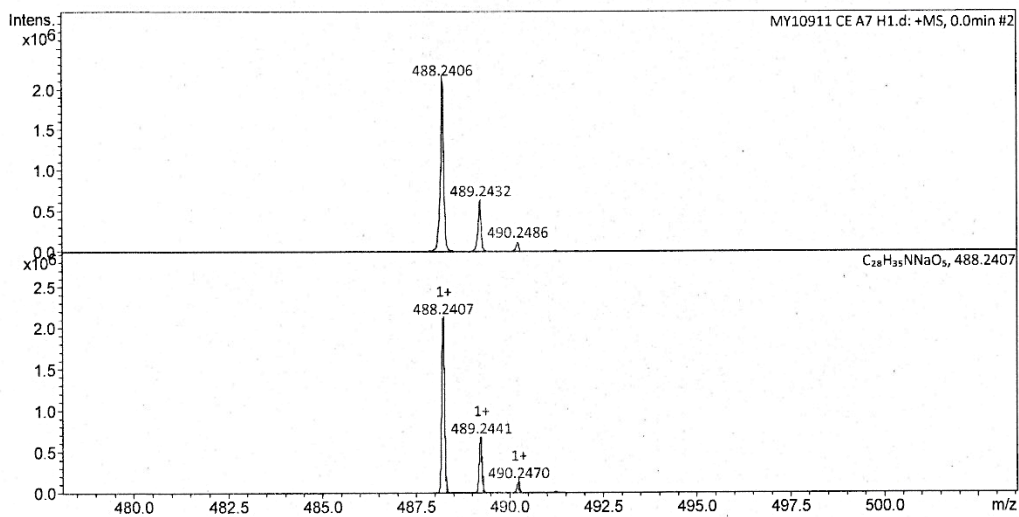


Figure S121. HRESIMS spectrum of compound **15**

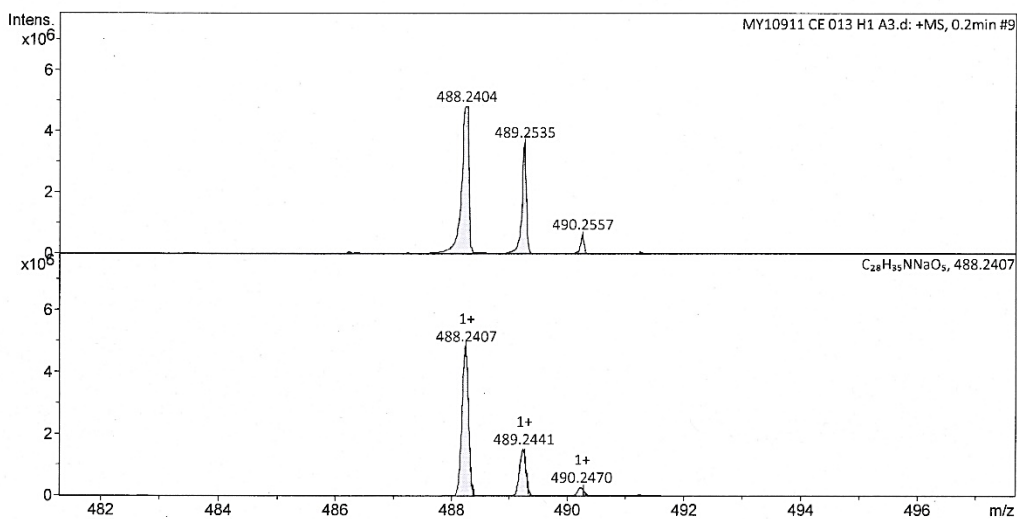


Figure S122. HRESIMS spectrum of compound **16**

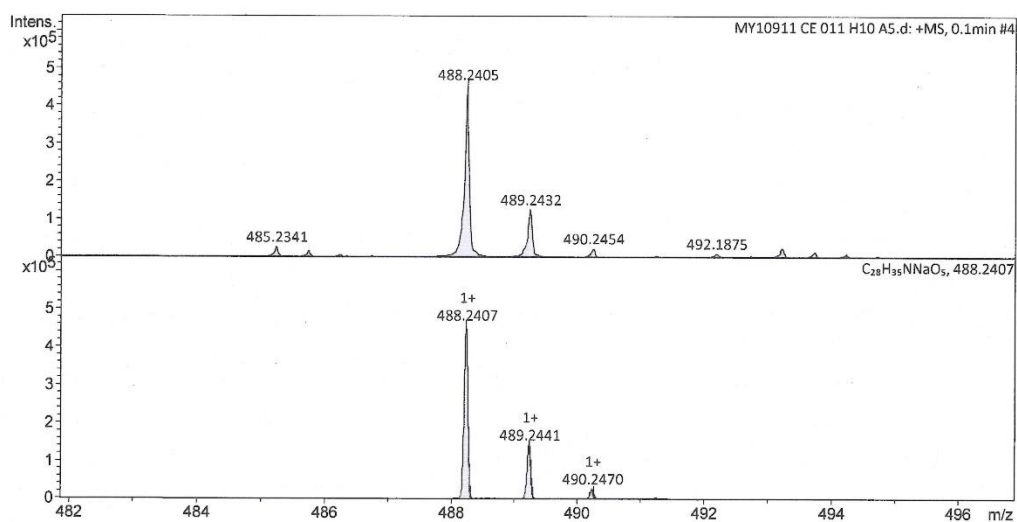


Figure S123. HRESIMS spectrum of compound **17**

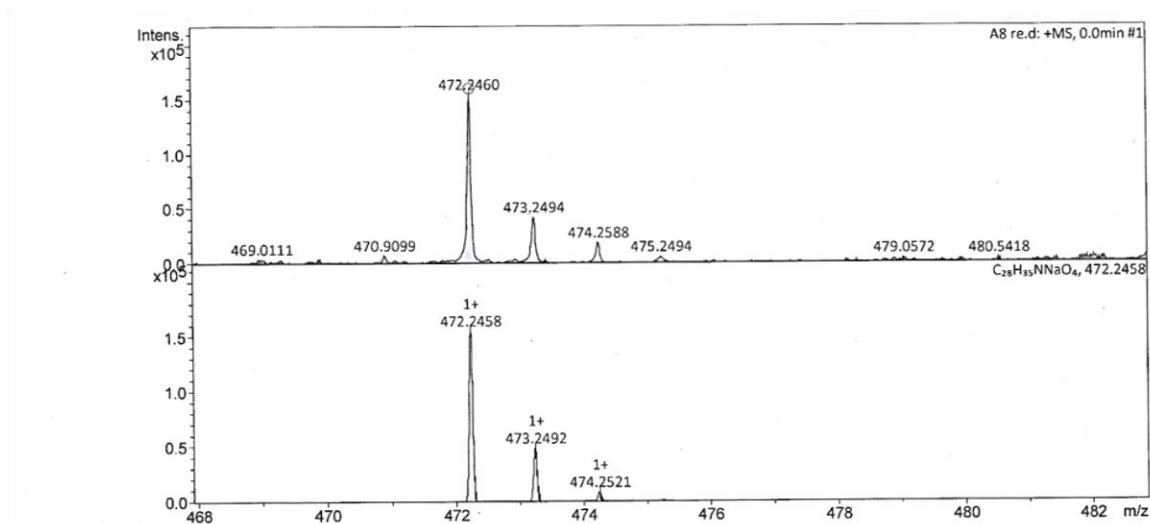


Figure S124. HRESIMS spectrum of compound **18**

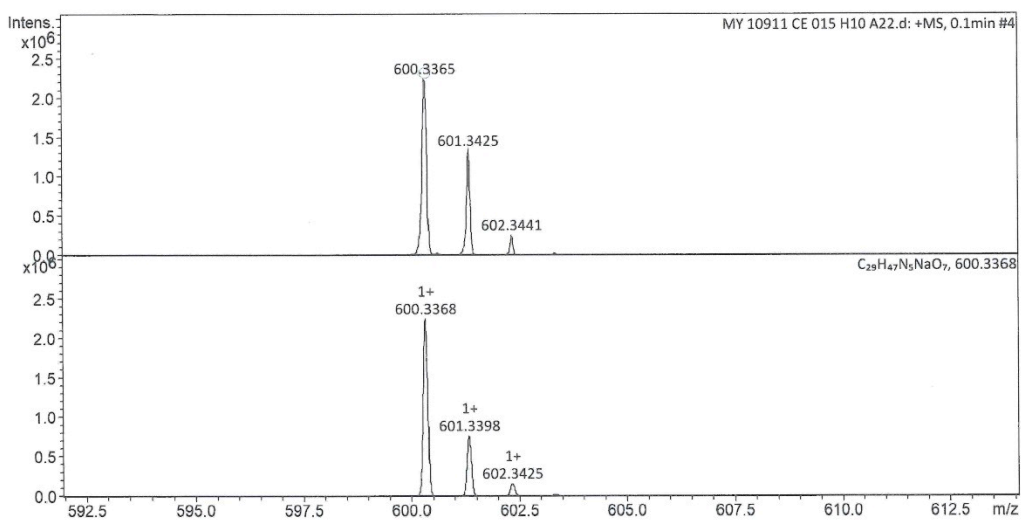


Figure S125. HRESIMS spectrum of destruxin A

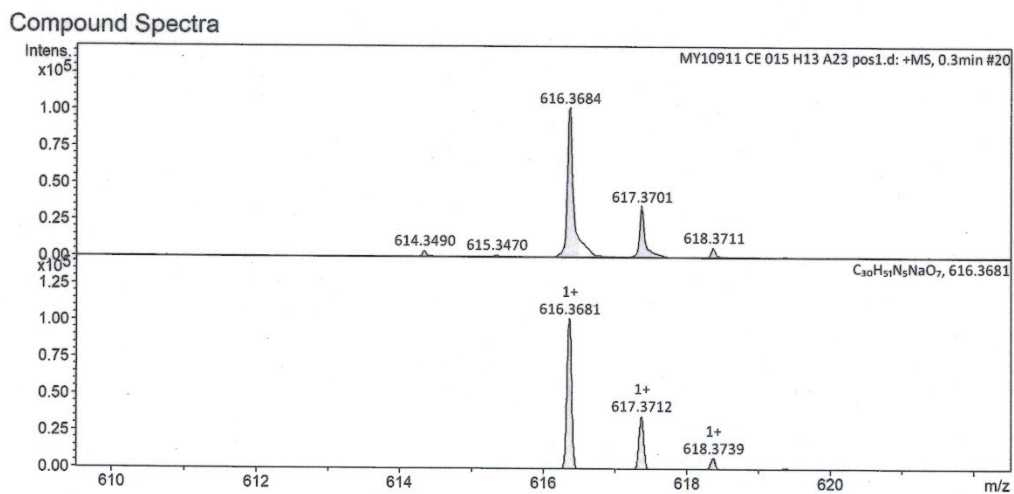


Figure S126. HRESIMS spectrum of destruxin B

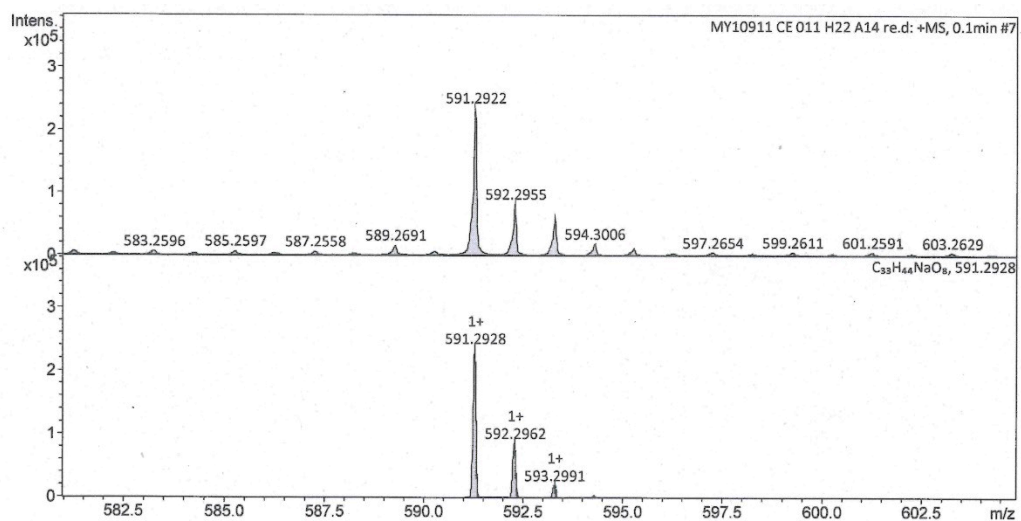


Figure S127. HRESIMS spectrum of helvolic acid

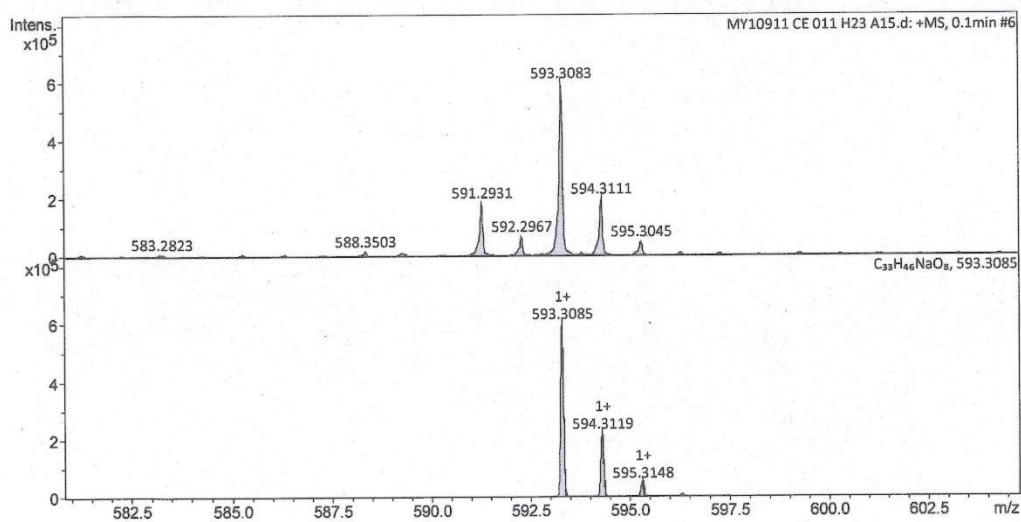


Figure S128. HRESIMS spectrum of 1,2-dihydrohelvolic acid

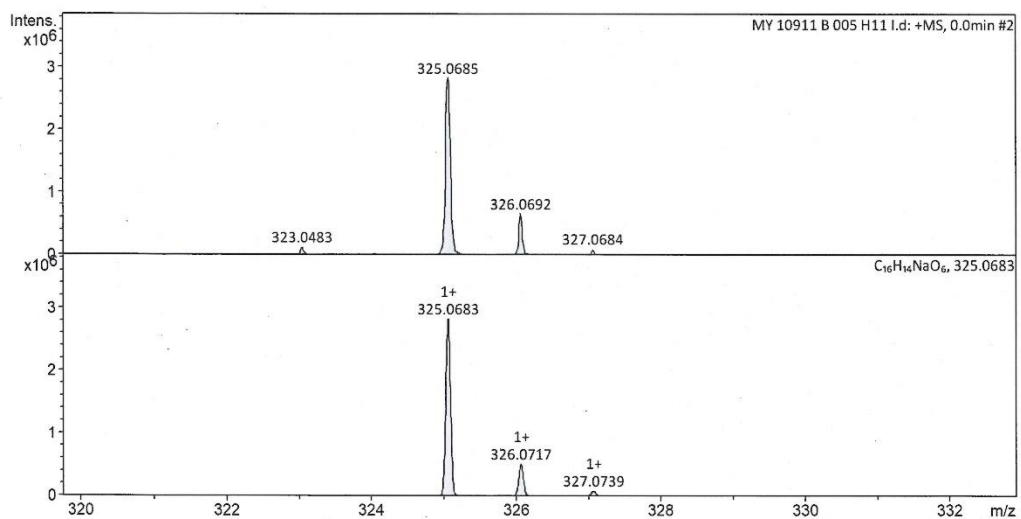


Figure S129. HRESIMS spectrum of meromuside I

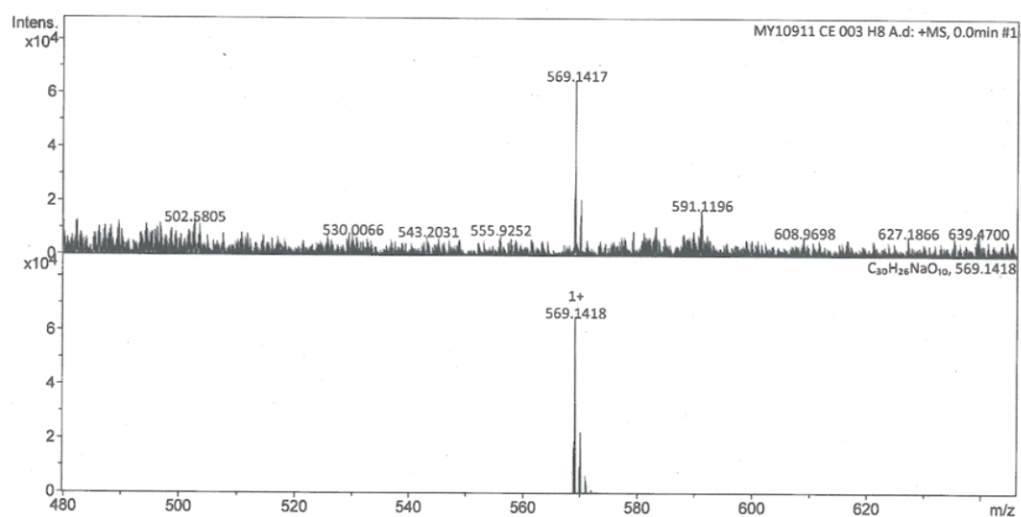


Figure S130. HRESIMS spectrum of ustilaginoidins D

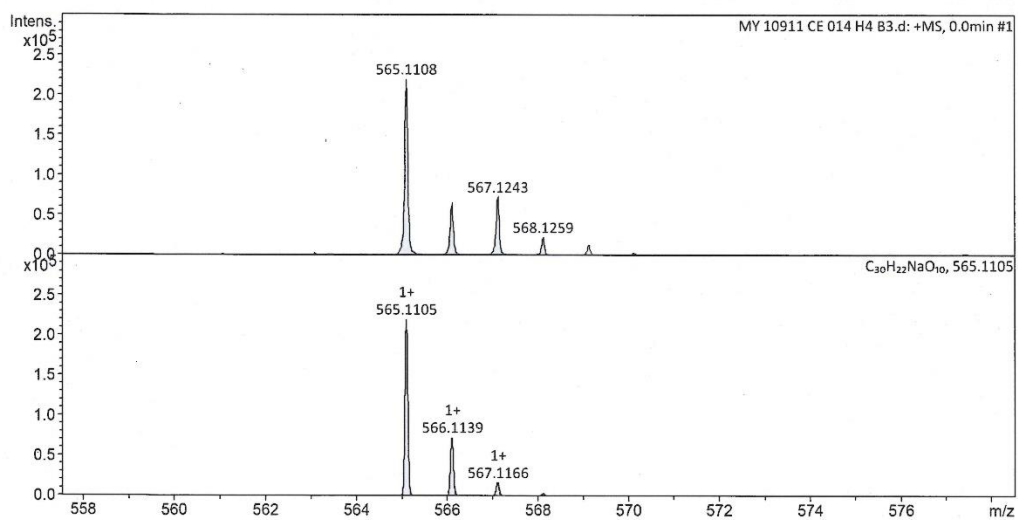


Figure S131. HRESIMS spectrum of ustilaginoidins K