Supplementary Information

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Figure S1. HR-ESIMS spectrum of the new compound **1**.

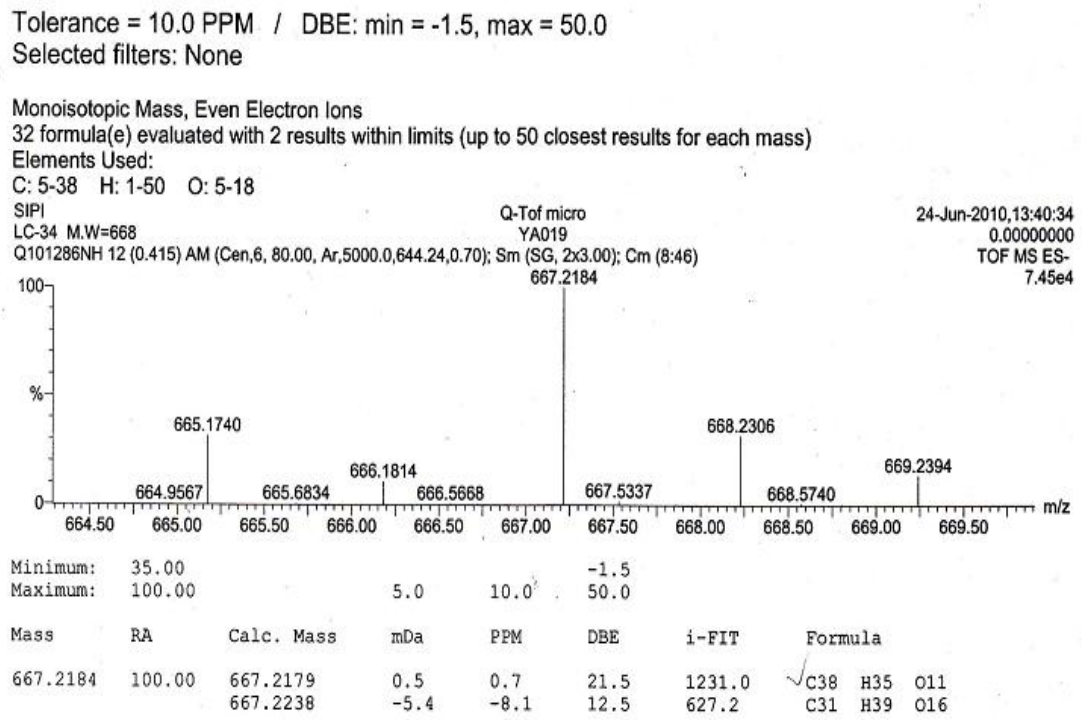


Figure S2. ^{1}H MNR (600 MHz, $CDCl_3$) spectrum of the new compound **1**.

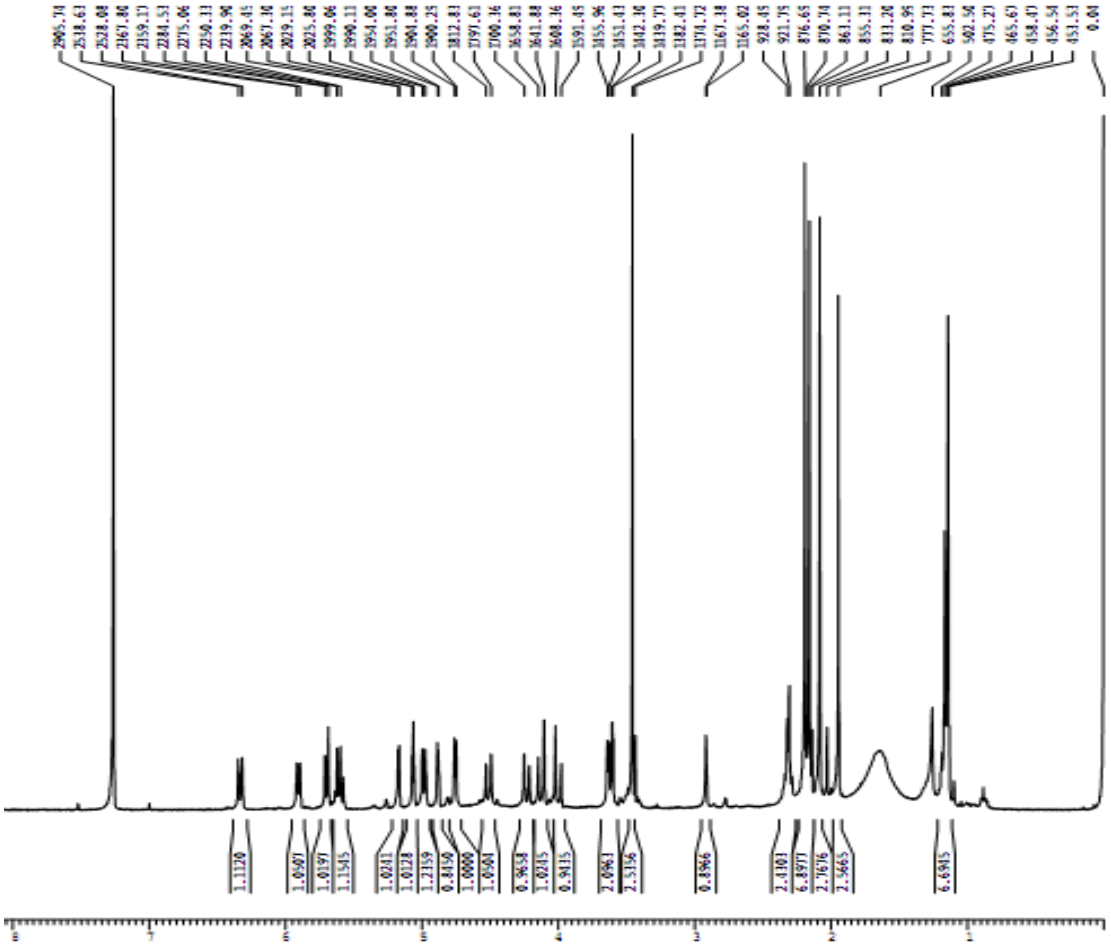


Figure S3. ^{13}C MNR (150 MHz, $CDCl_3$) spectrum of the new compound **1**.

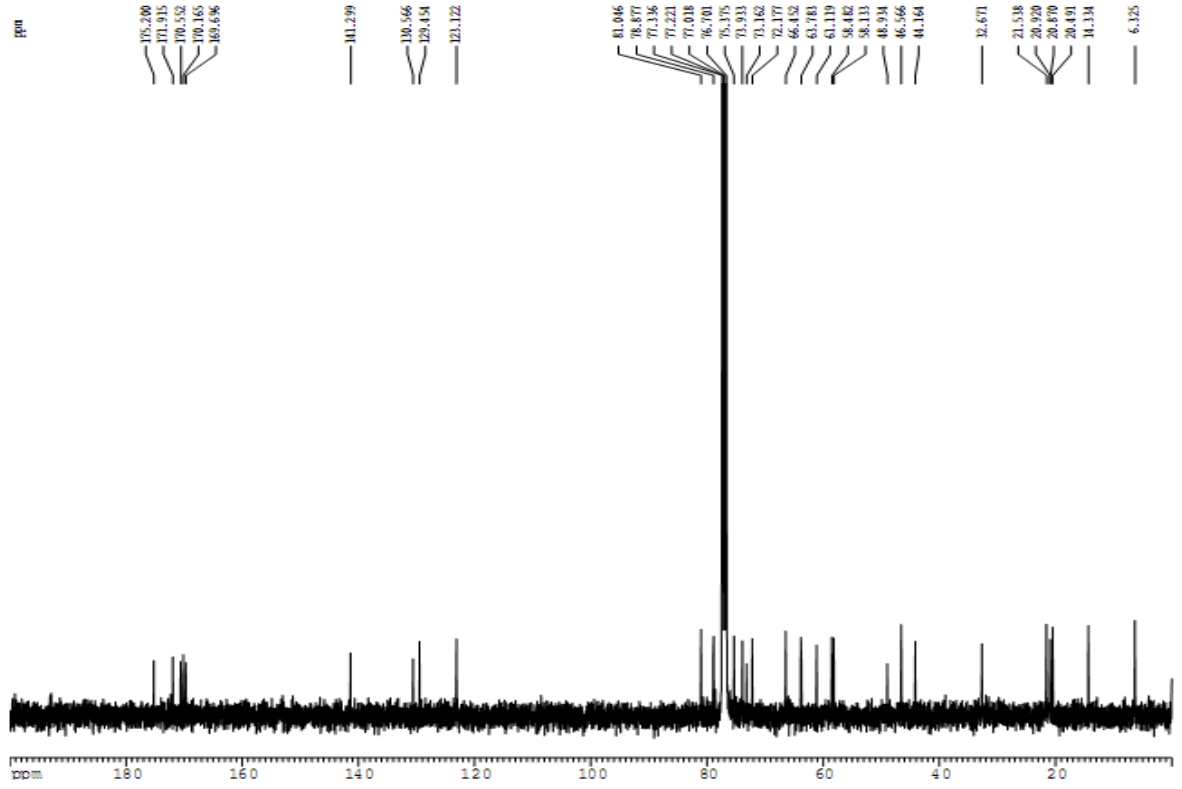


Figure S4. DEPT spectrum of the new compound **1**.

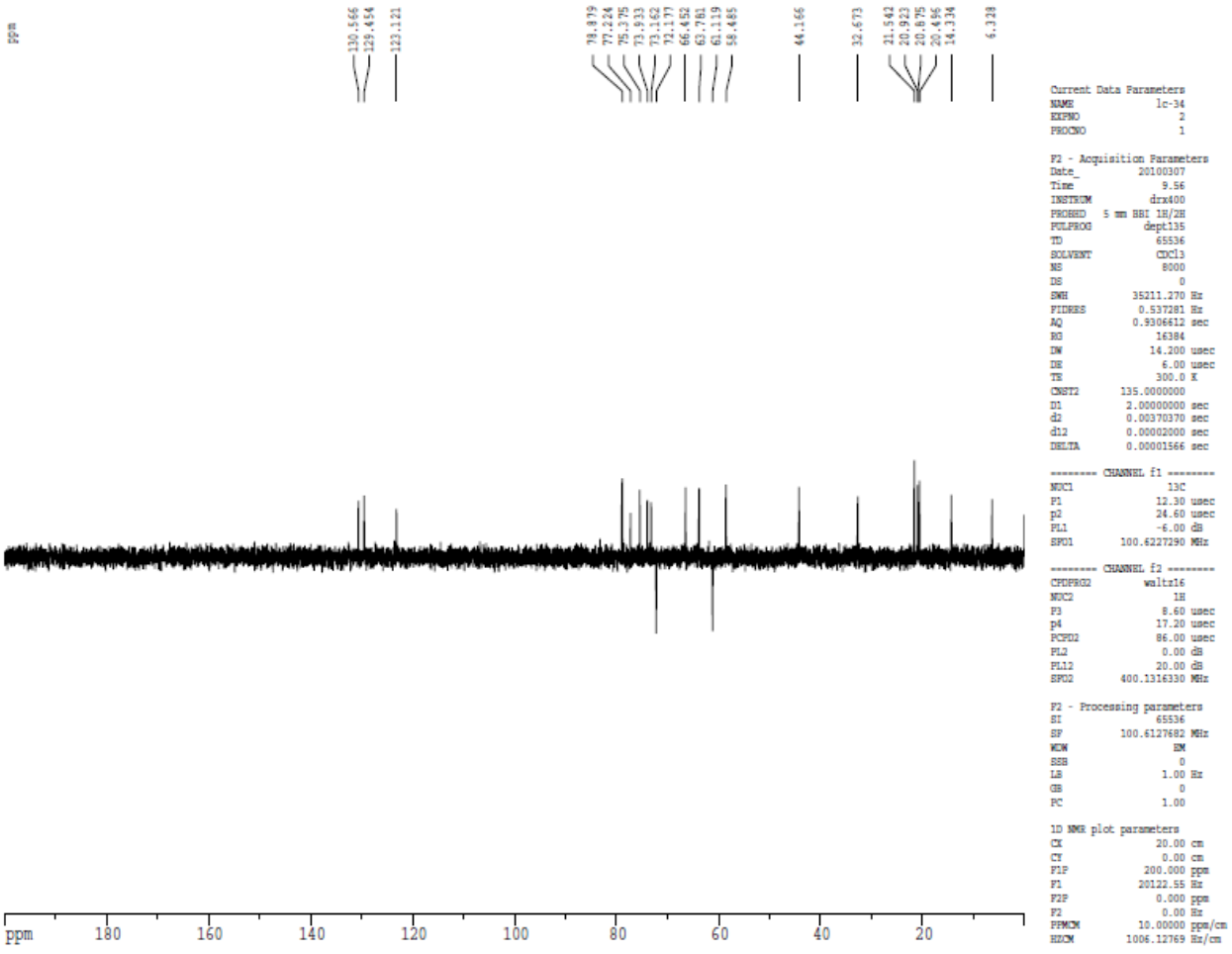


Figure S5. HSQC spectrum of the new compound **1**.

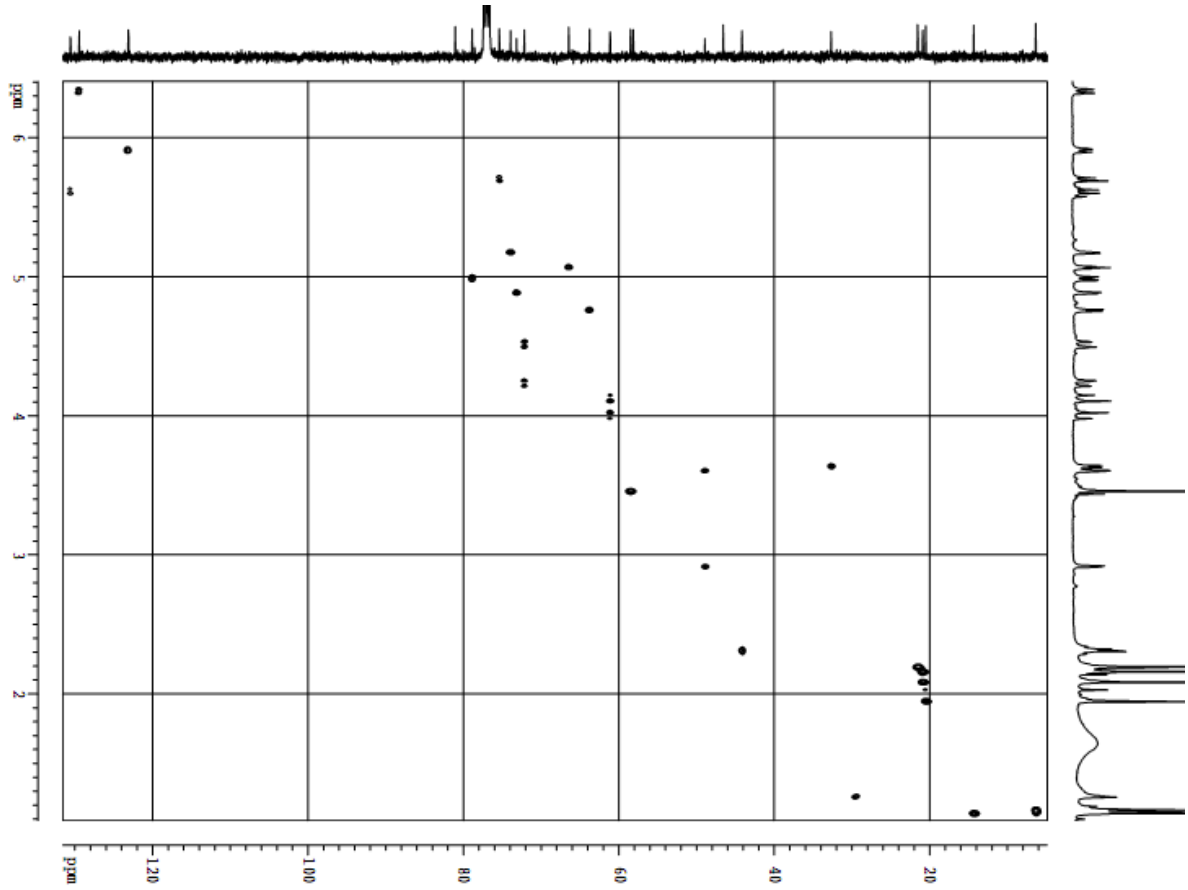


Figure S6. ^{1}H-^{1}H COSY spectrum of the new compound **1**.

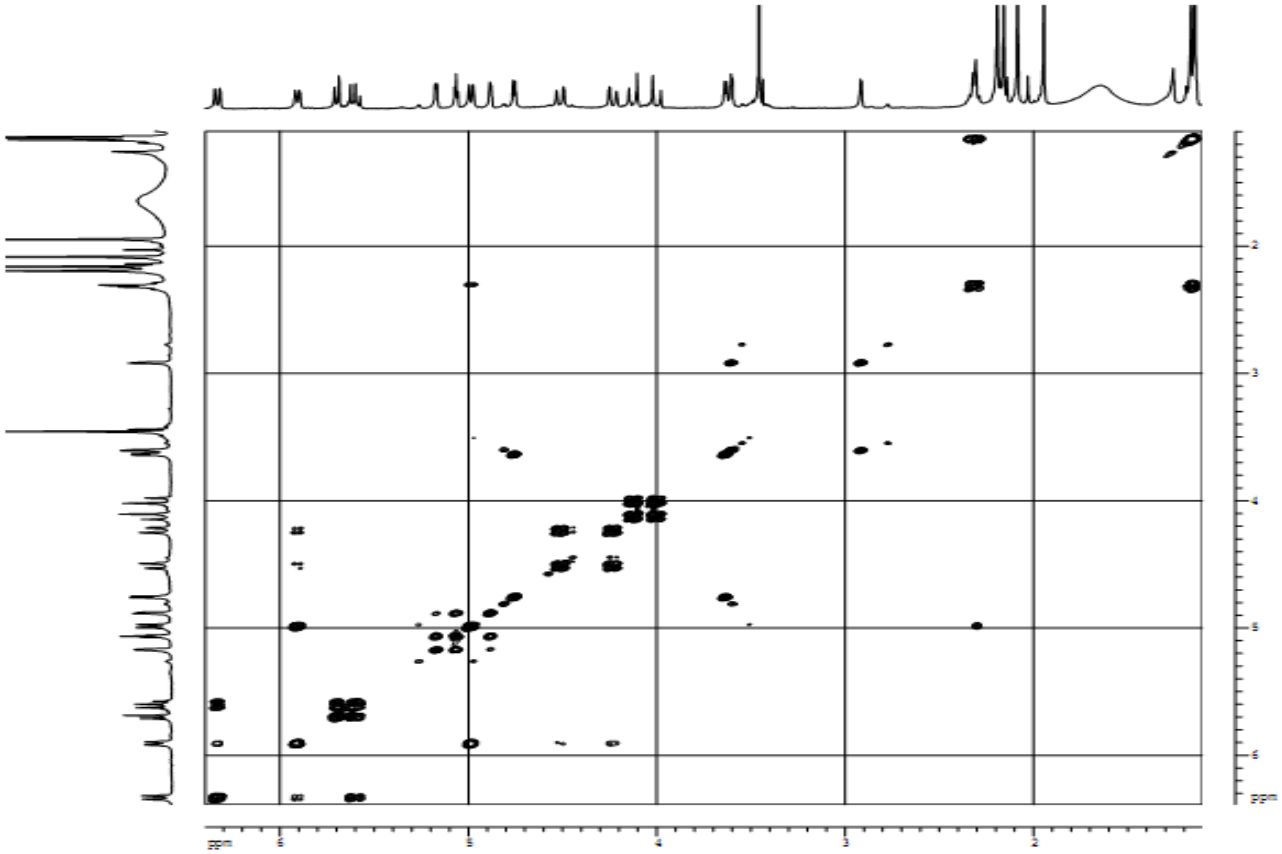


Figure S7. HMBC spectrum of the new compound **1**.

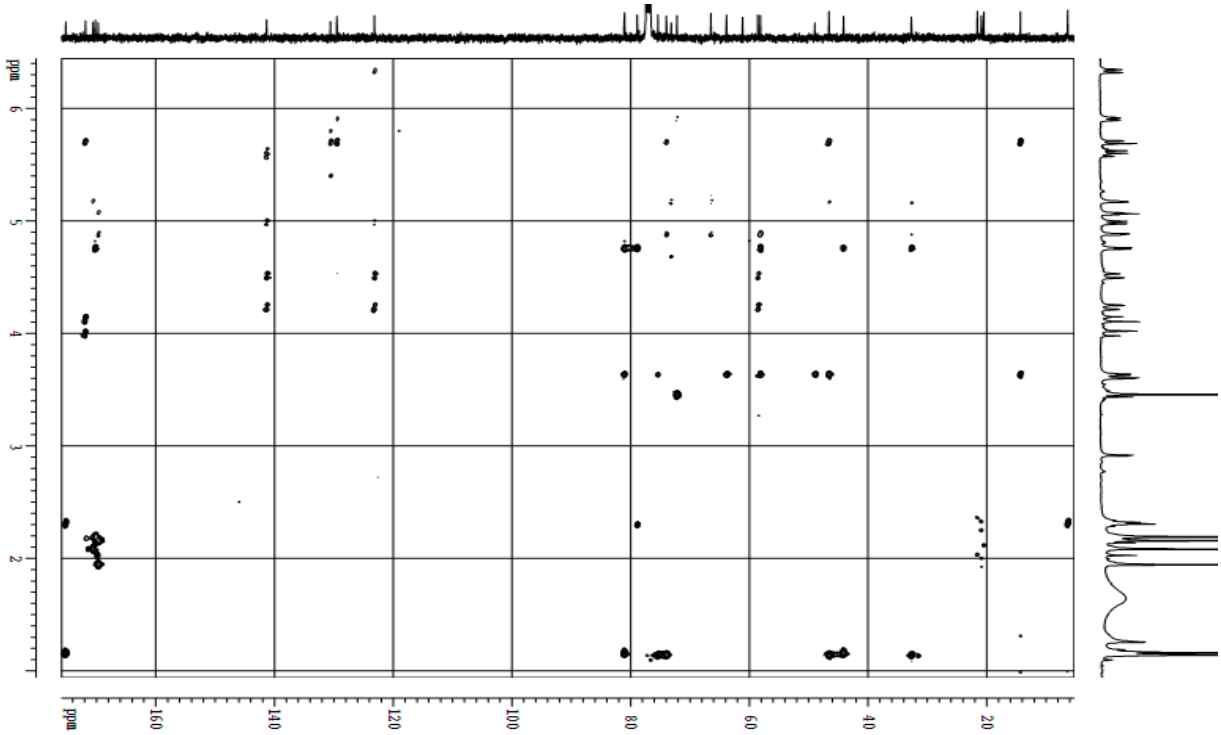


Figure S8. NOESY spectrum of the new compound **1**.

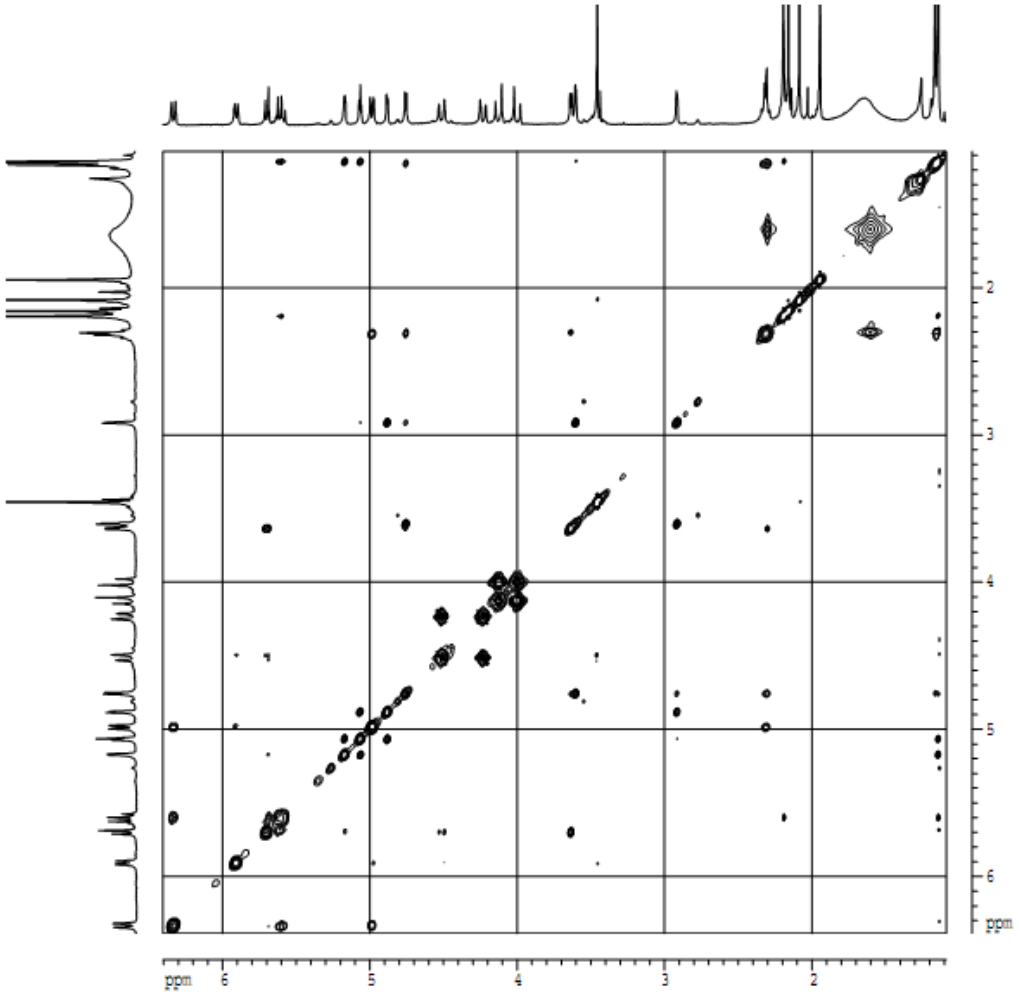


Figure S9. HR-ESIMS spectrum of the new compound **2**.

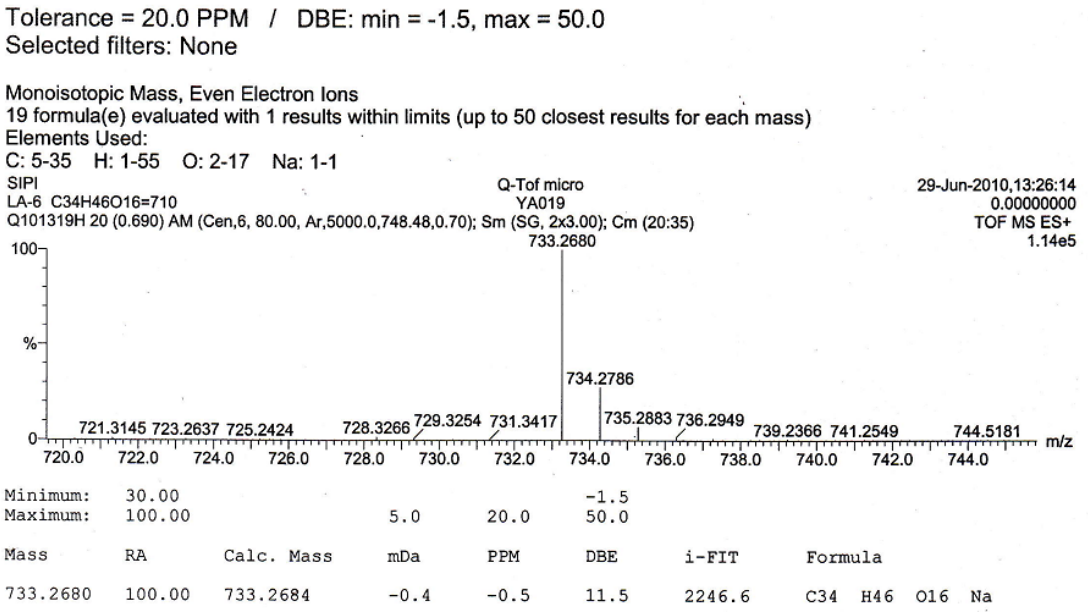


Figure S10. ^{1}H MNR (400 MHz, $CDCl_3$) spectrum of the new compound **2**.

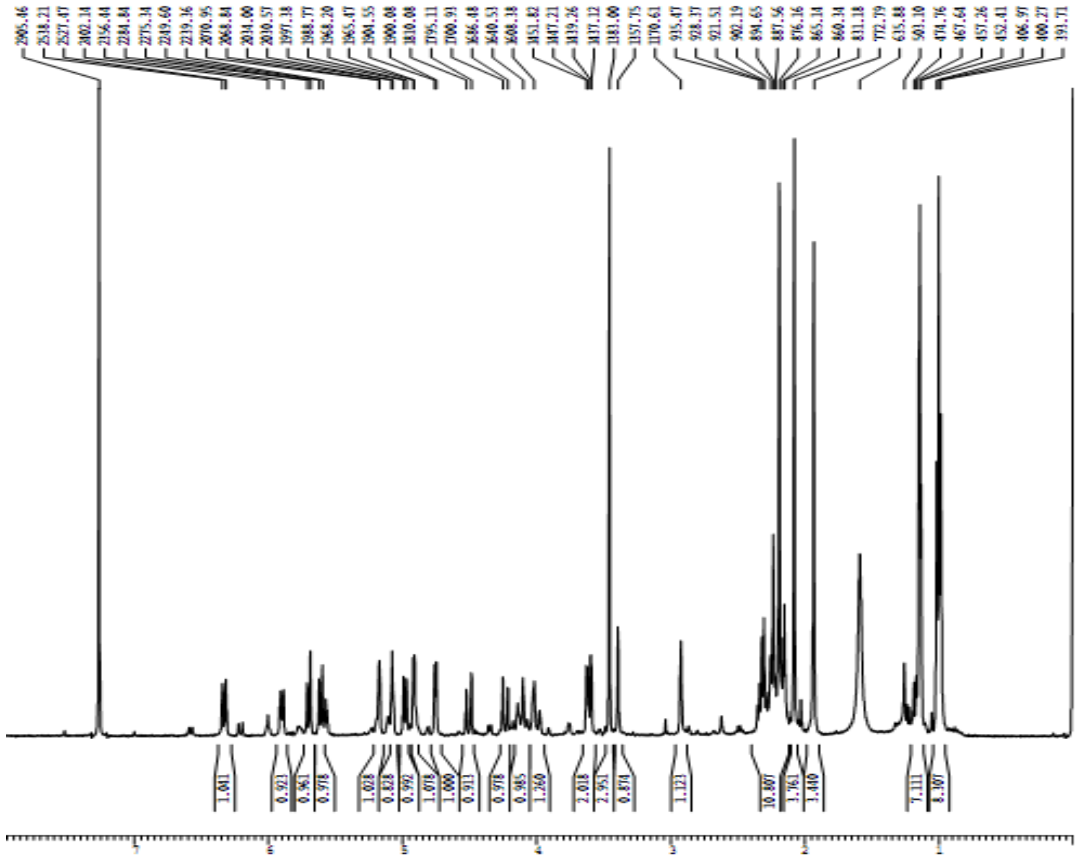


Figure S11. ^{13}C MNR (125 MHz, $CDCl_3$) spectrum of the new compound **2**.

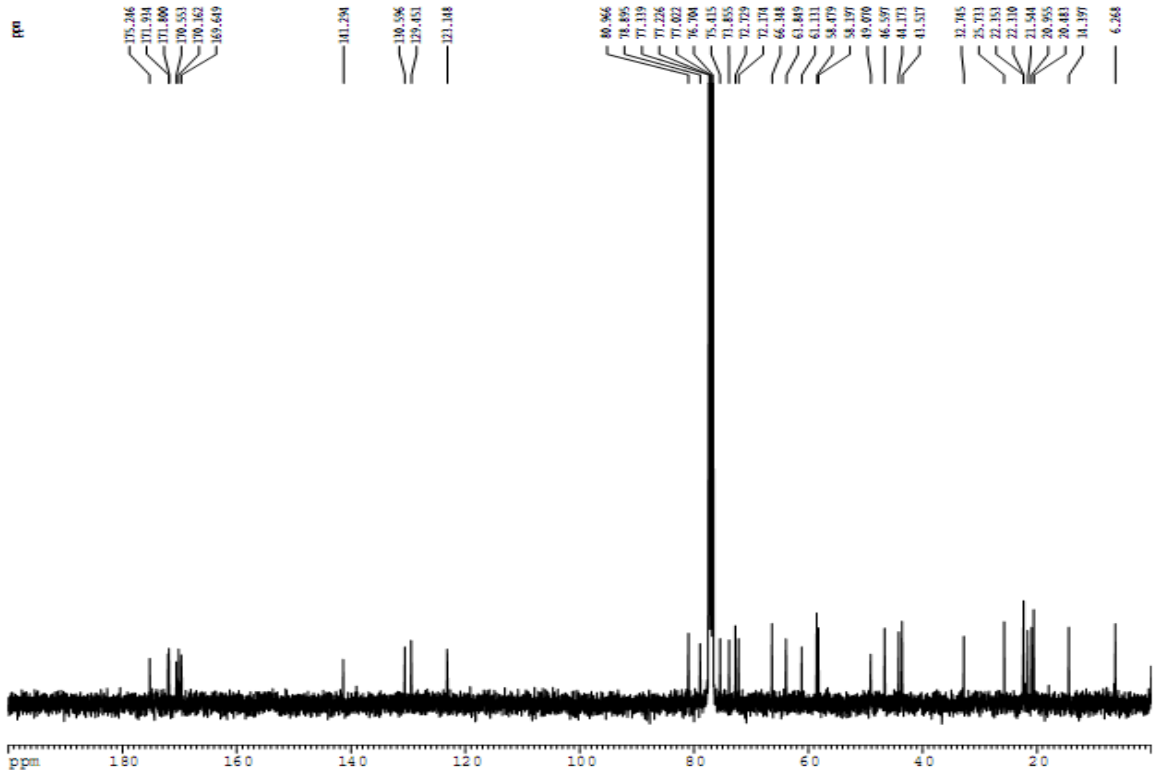


Figure S12. DEPT spectrum of the new compound **2**.

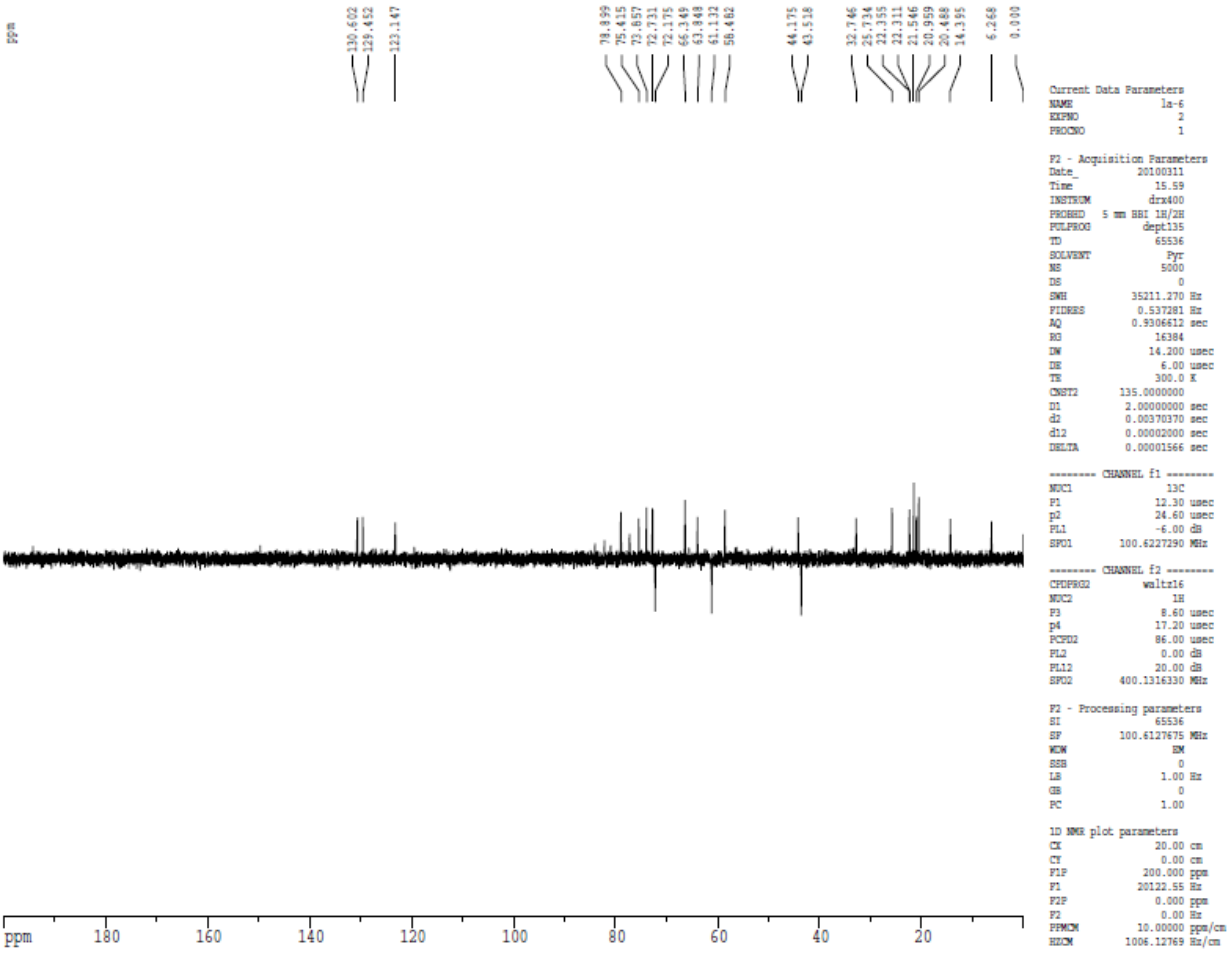


Figure S13. HSQC spectrum of the new compound **2**.

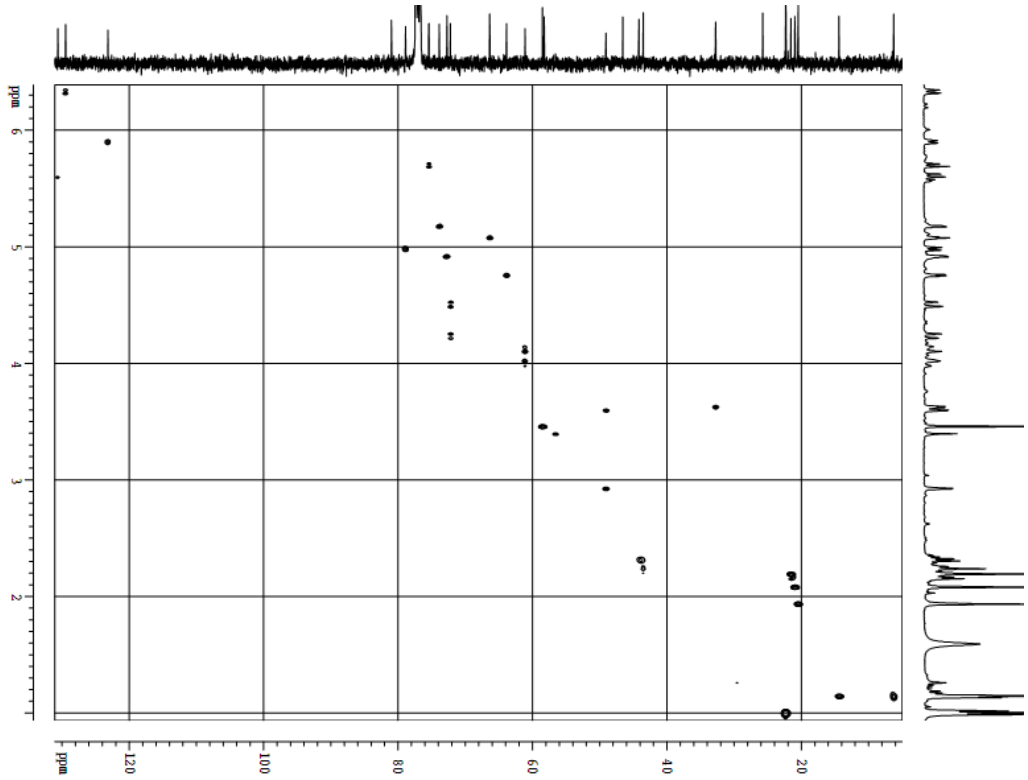


Figure S14. ^{1}H-^{1}H COSY spectrum of the new compound **2**.

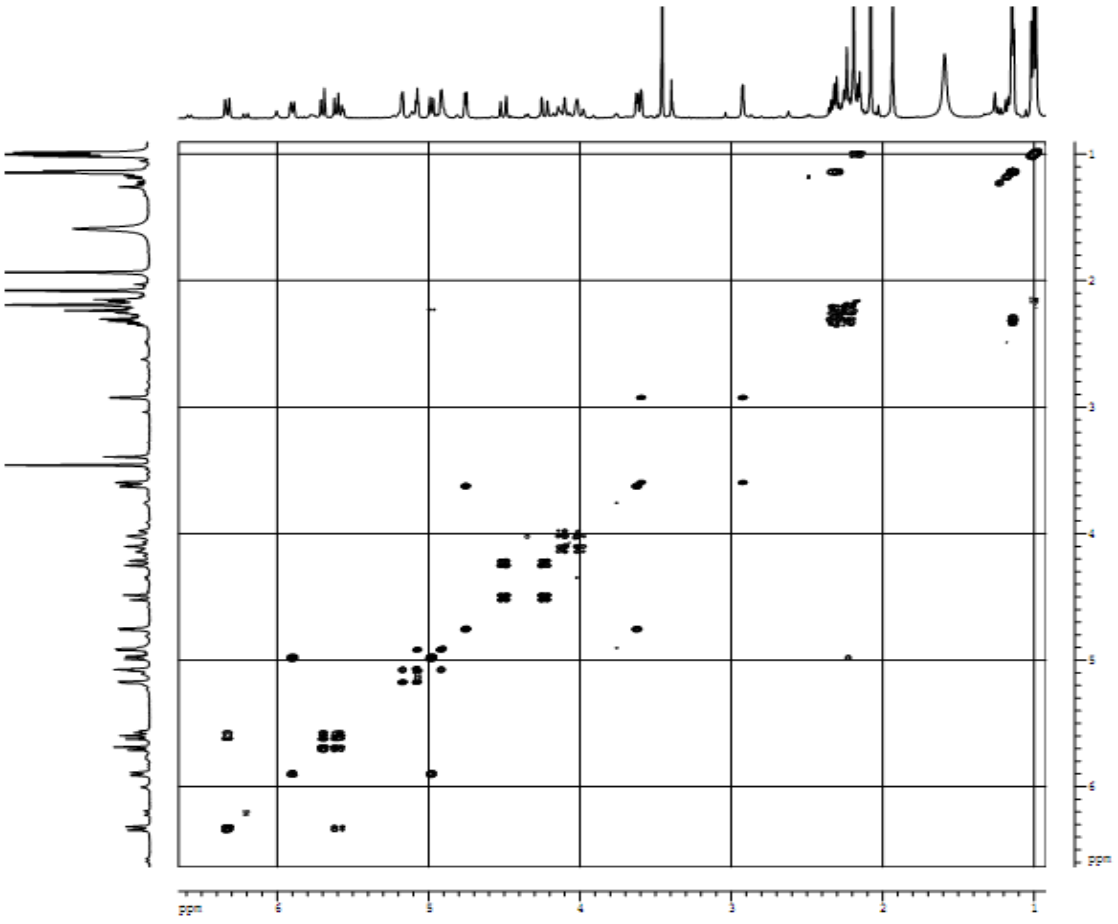


Figure S15. HMBC spectrum of the new compound **2**.

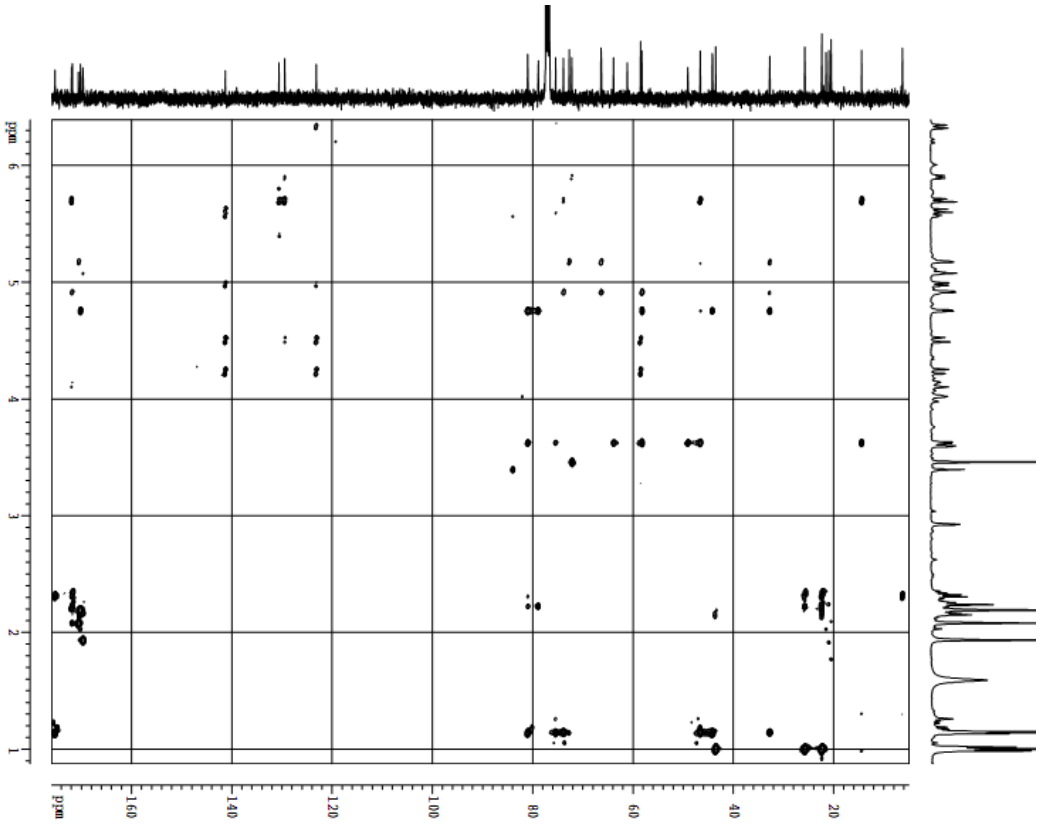


Figure S16. NOESY spectrum of the new compound **2**.

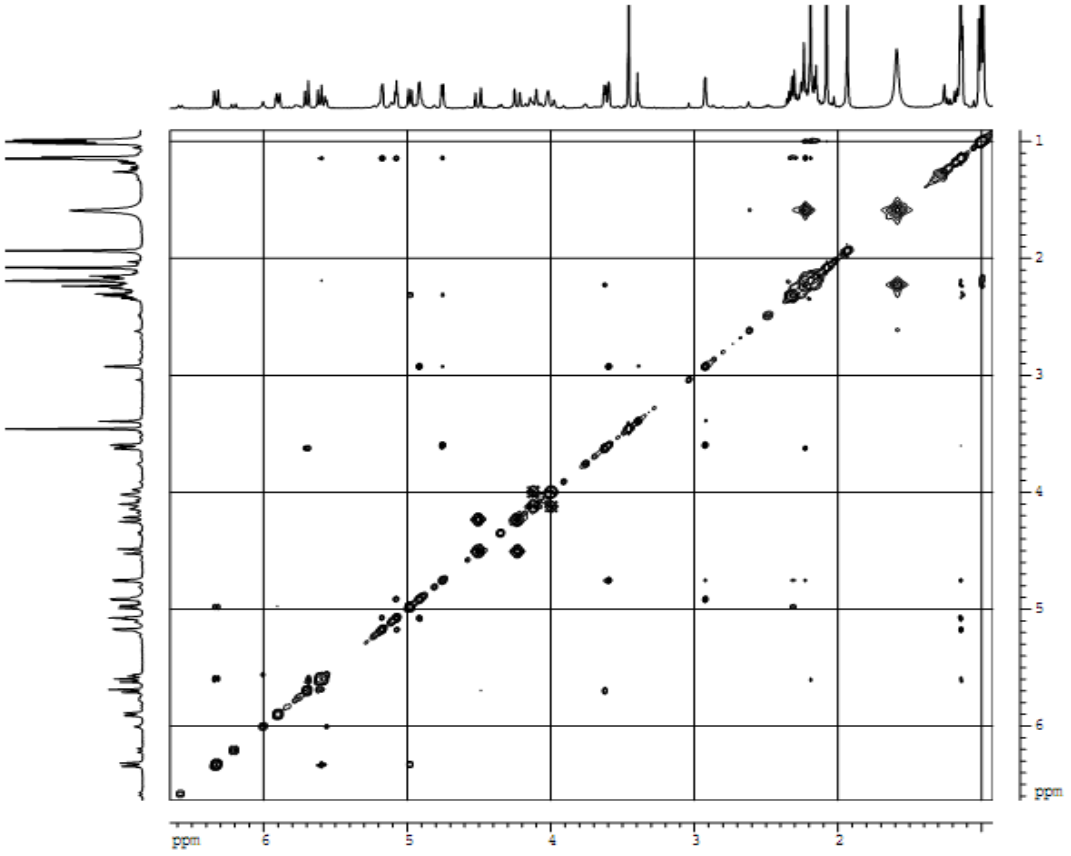


Figure S17. HR-ESIMS spectrum of new compound **3**.

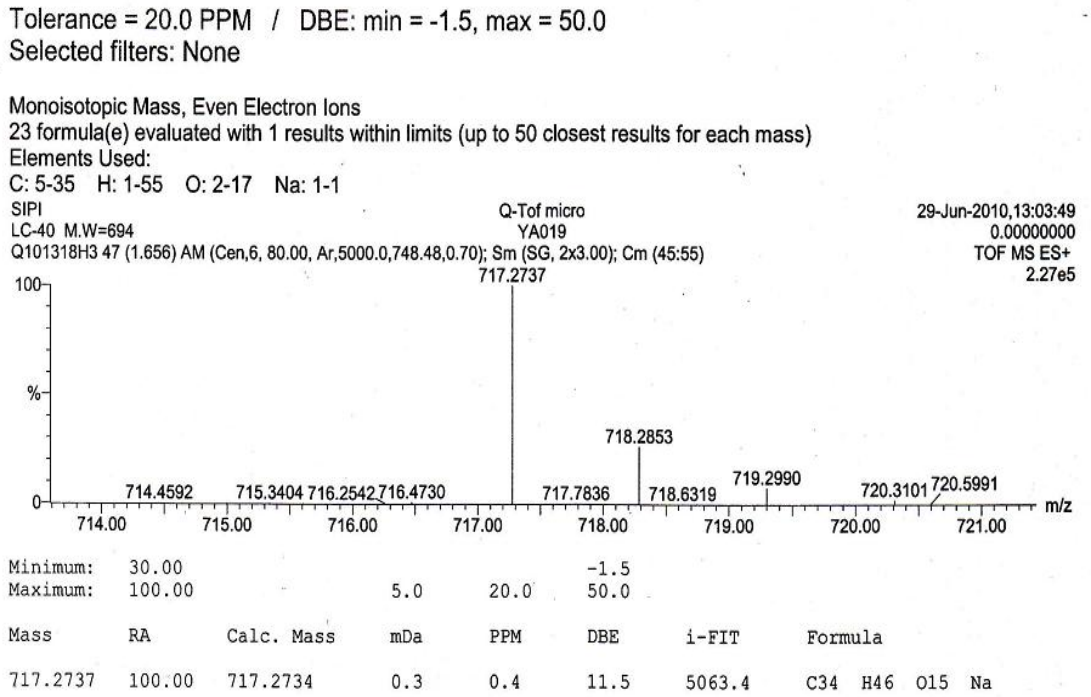


Figure S18. ^{1}H MNR (400 MHz, $CDCl_3$) spectrum of the new compound **3**.

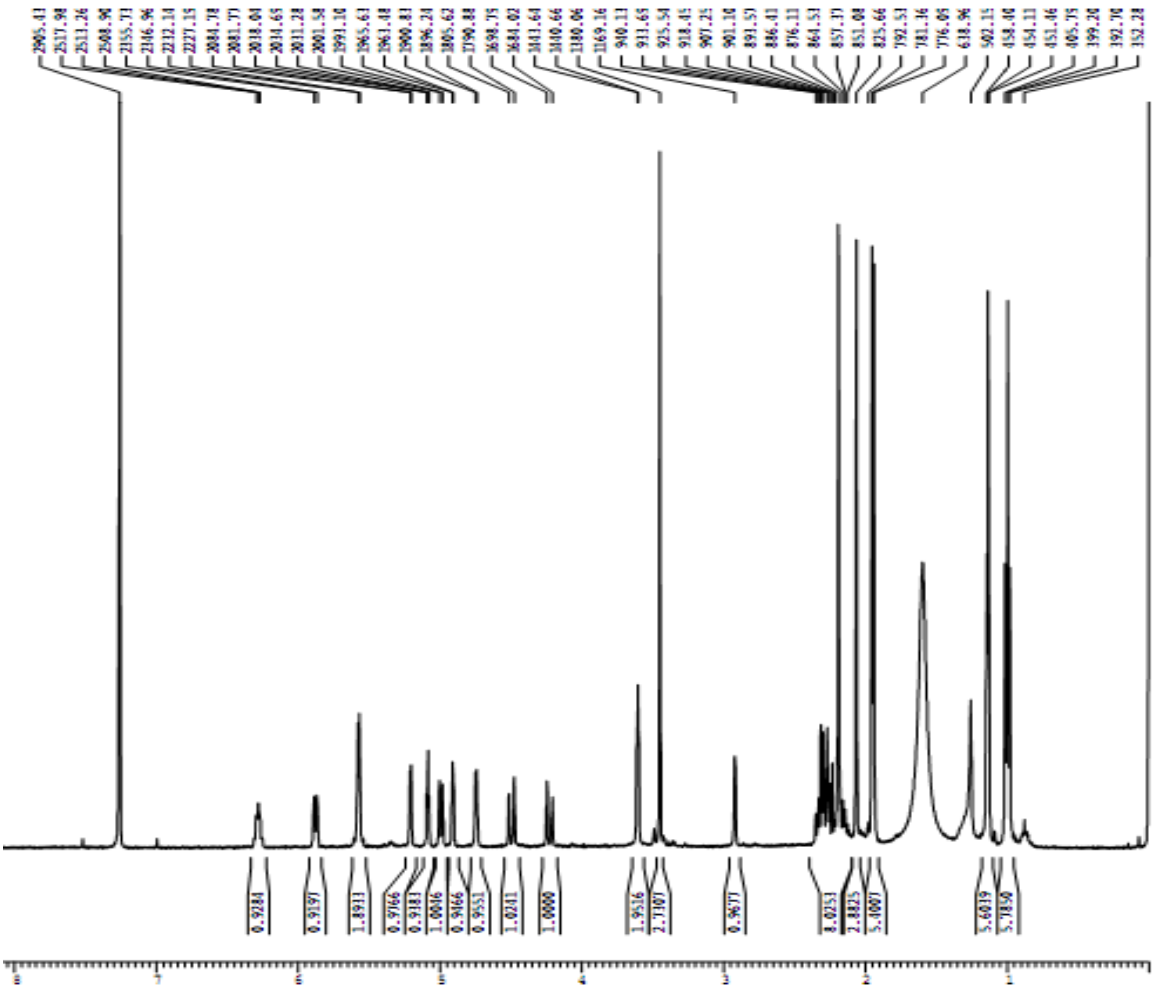


Figure S19. ^{13}C MNR (100 MHz, $CDCl_3$) spectrum of the new compound **3**.

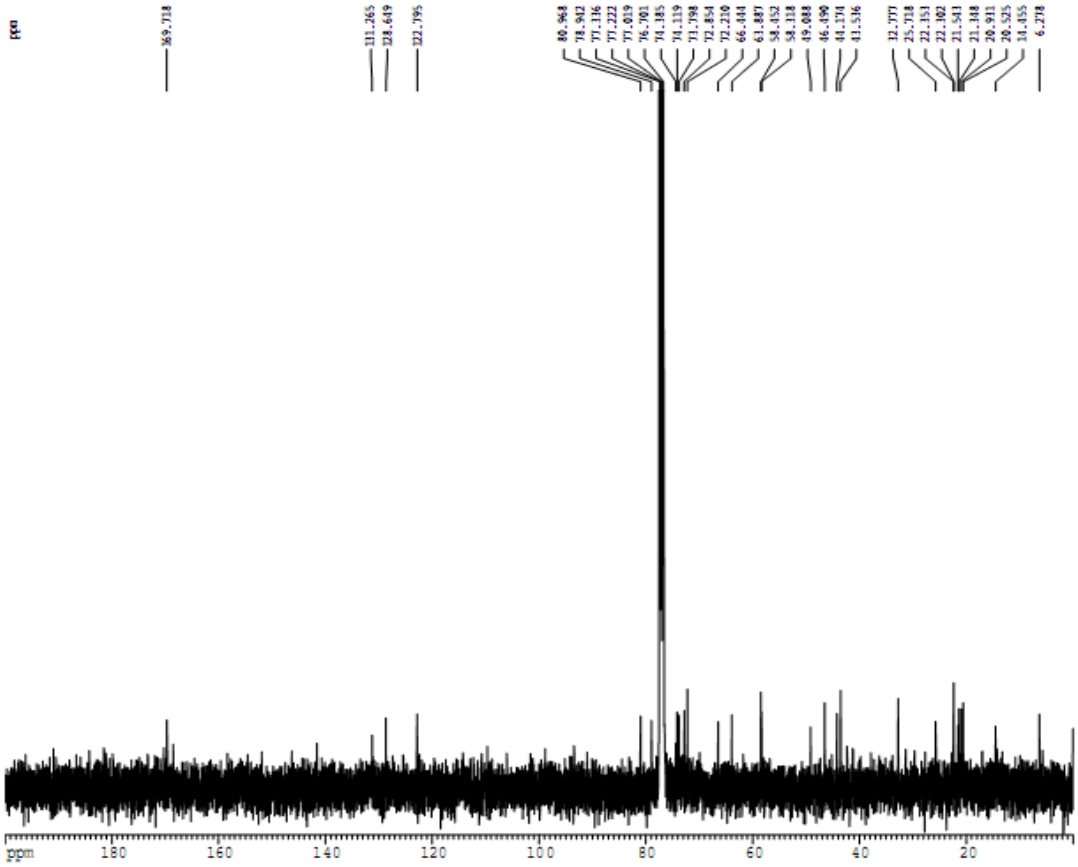


Figure S20. DEPT spectrum of the new compound **3**.

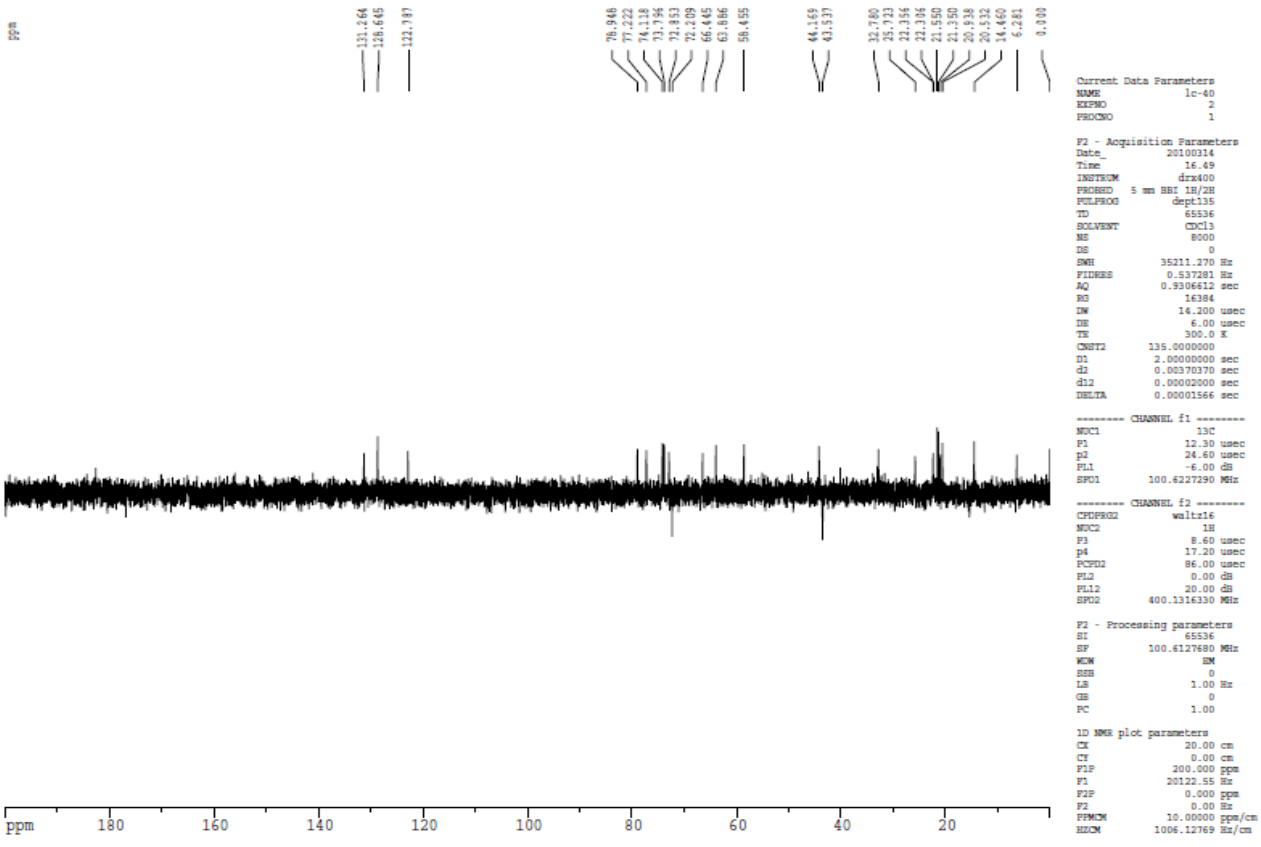


Figure S21. HSQC spectrum of the new compound **3**.

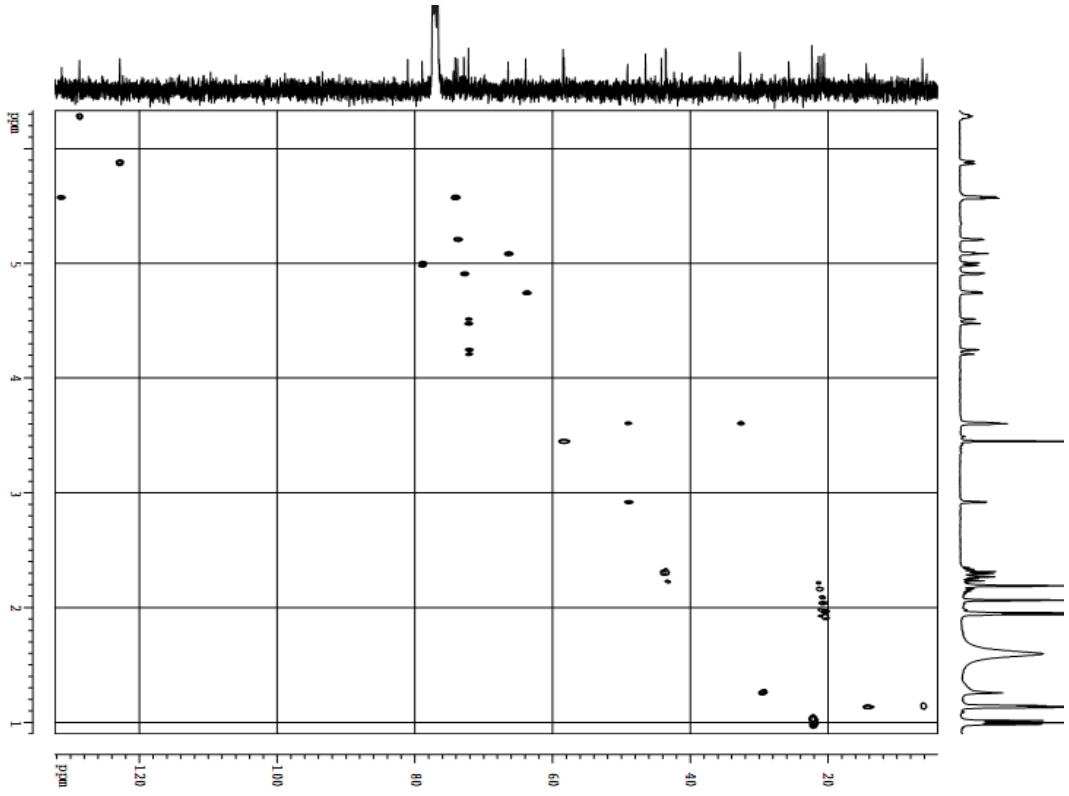


Figure S22. ^{1}H-^{1}H COSY spectrum of the new compound **3**.

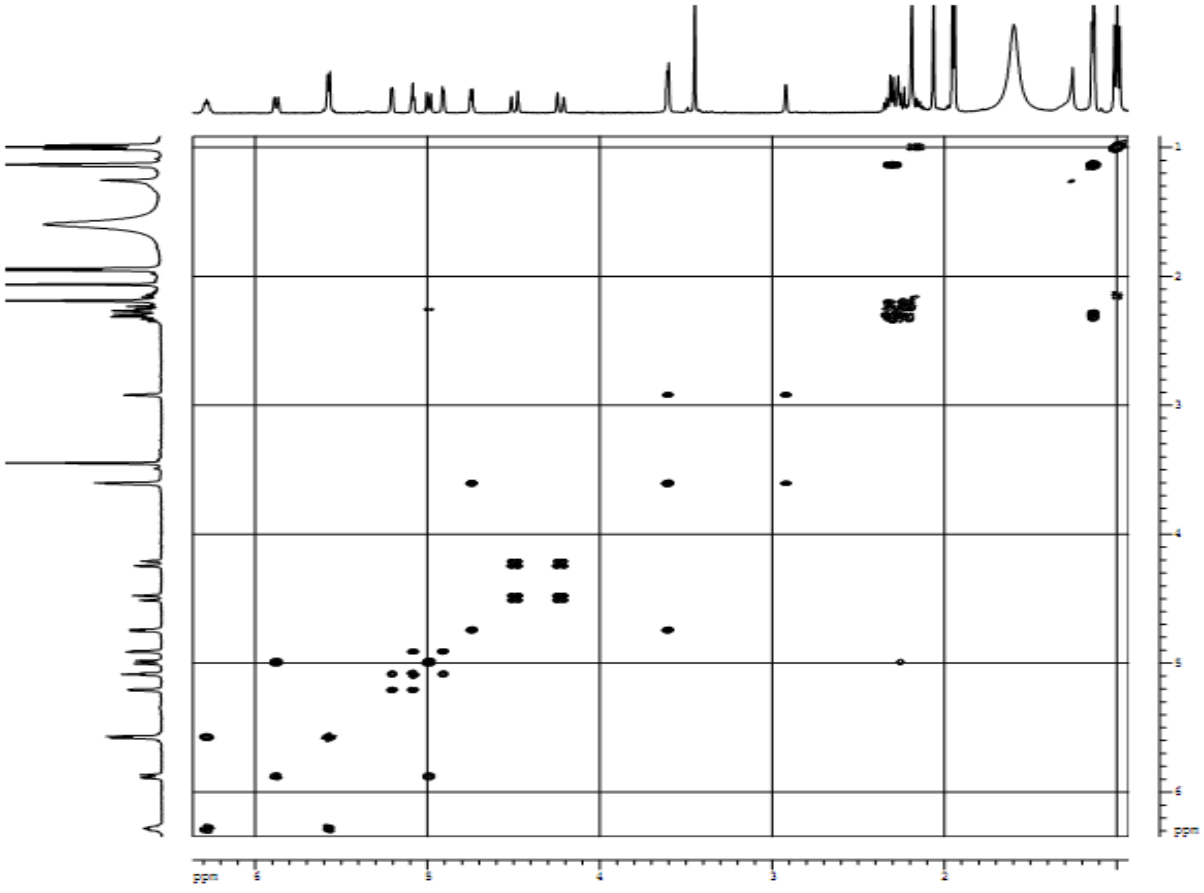


Figure S23. HMBC spectrum of the new compound **3**.

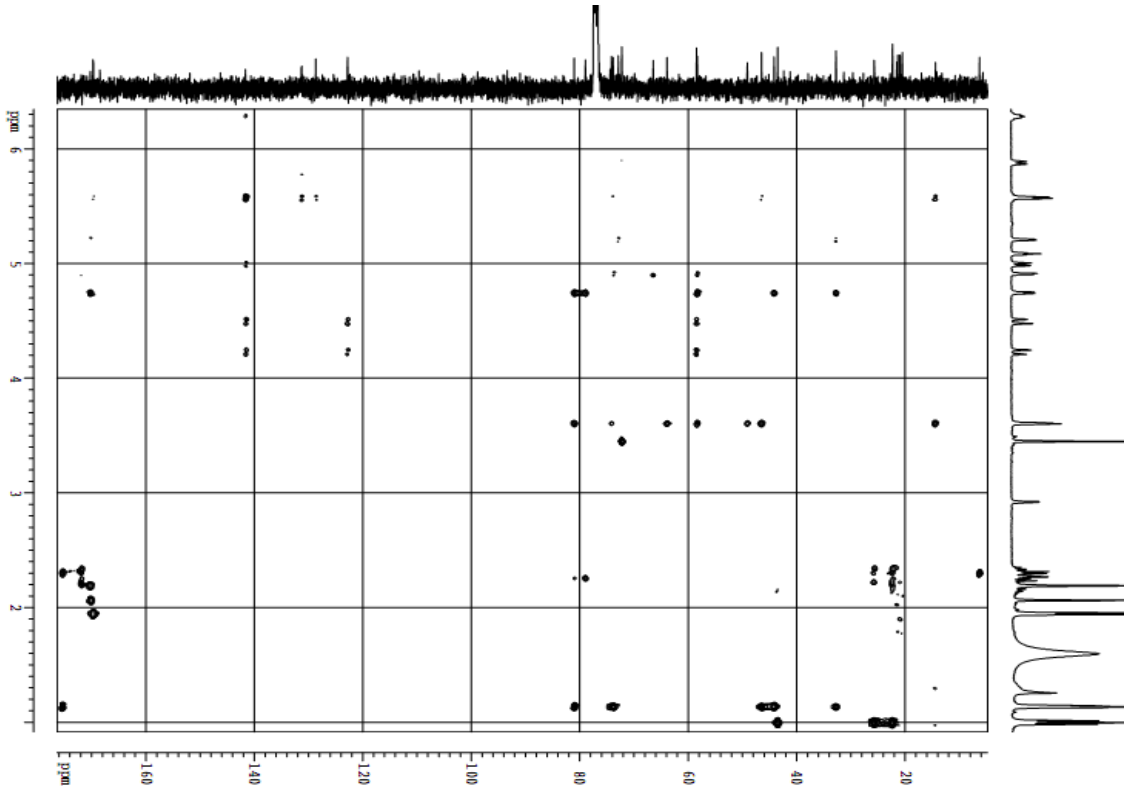


Figure S24. NOESY spectrum of the new compound **3**.

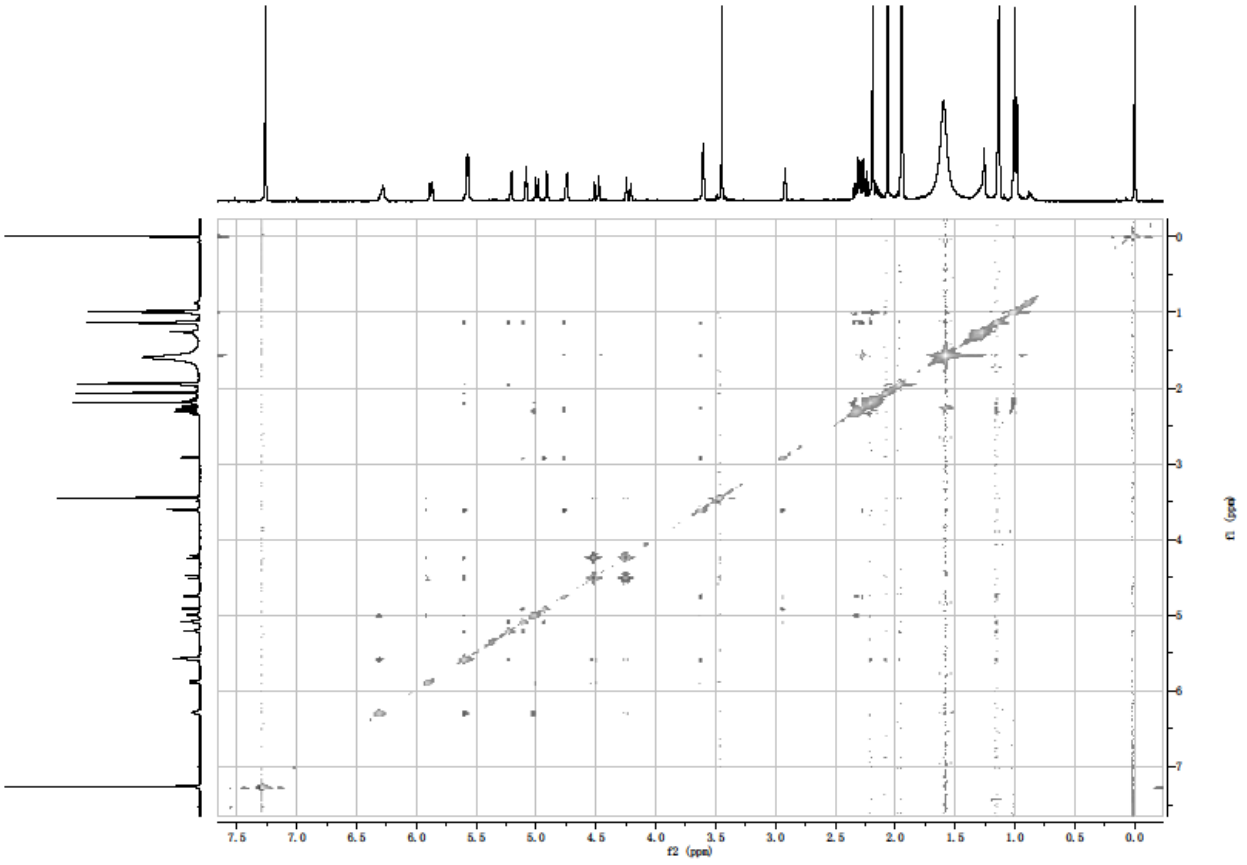


Figure S25. HRESIMS spectrum of compound **4**.

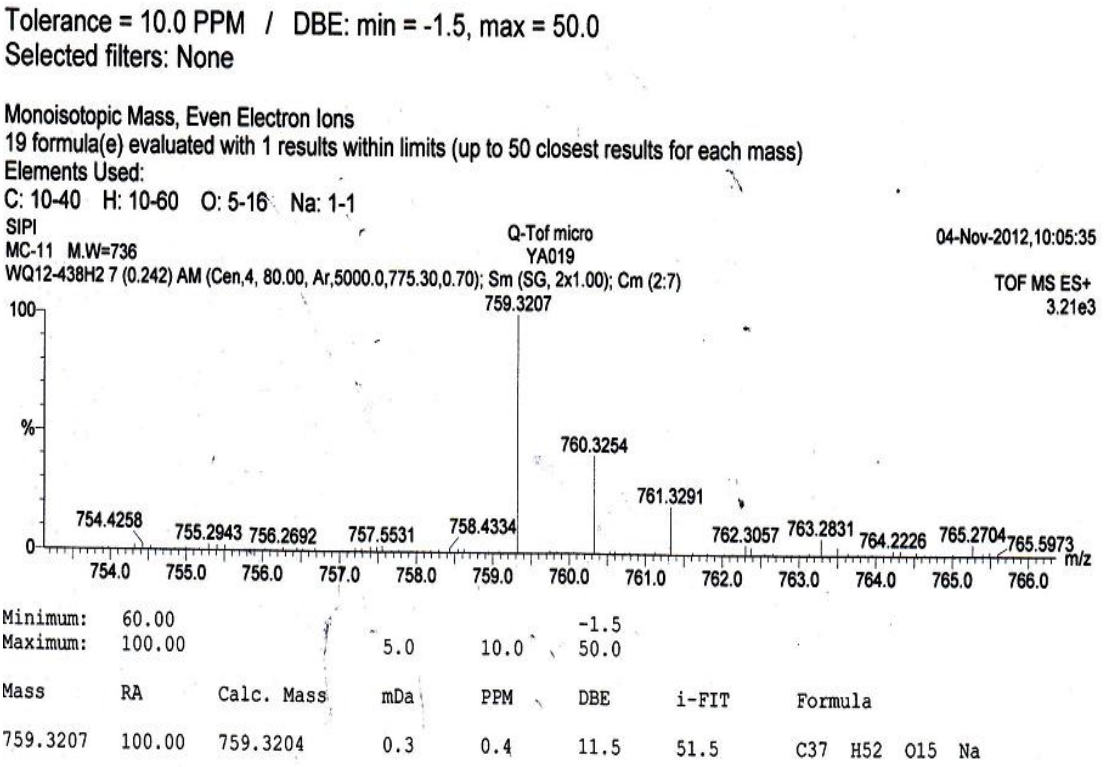


Figure S26. ^{1}H NMR spectrum of compound **4** in $CDCl_3$.

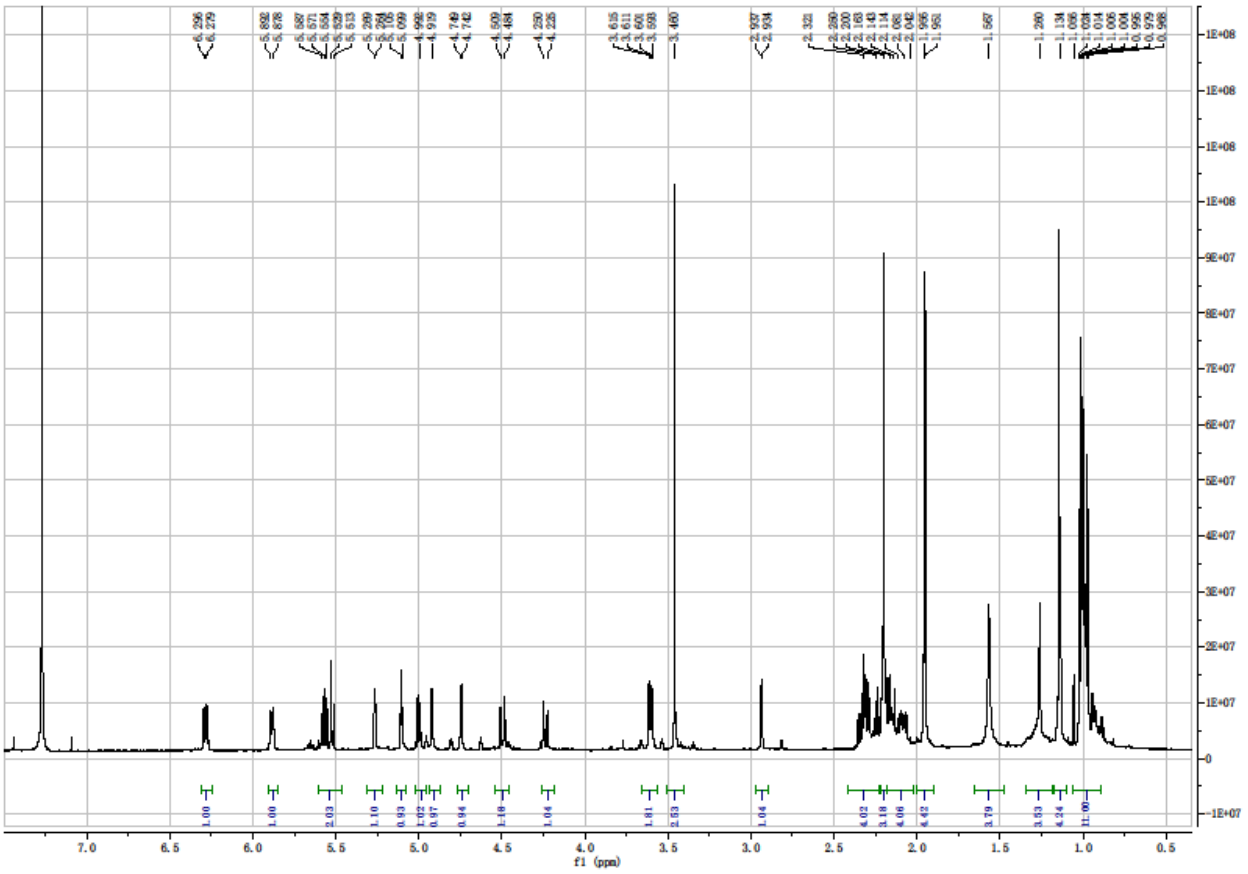


Figure S27. ^{13}C NMR spectrum of compound **4** in $CDCl_3$.

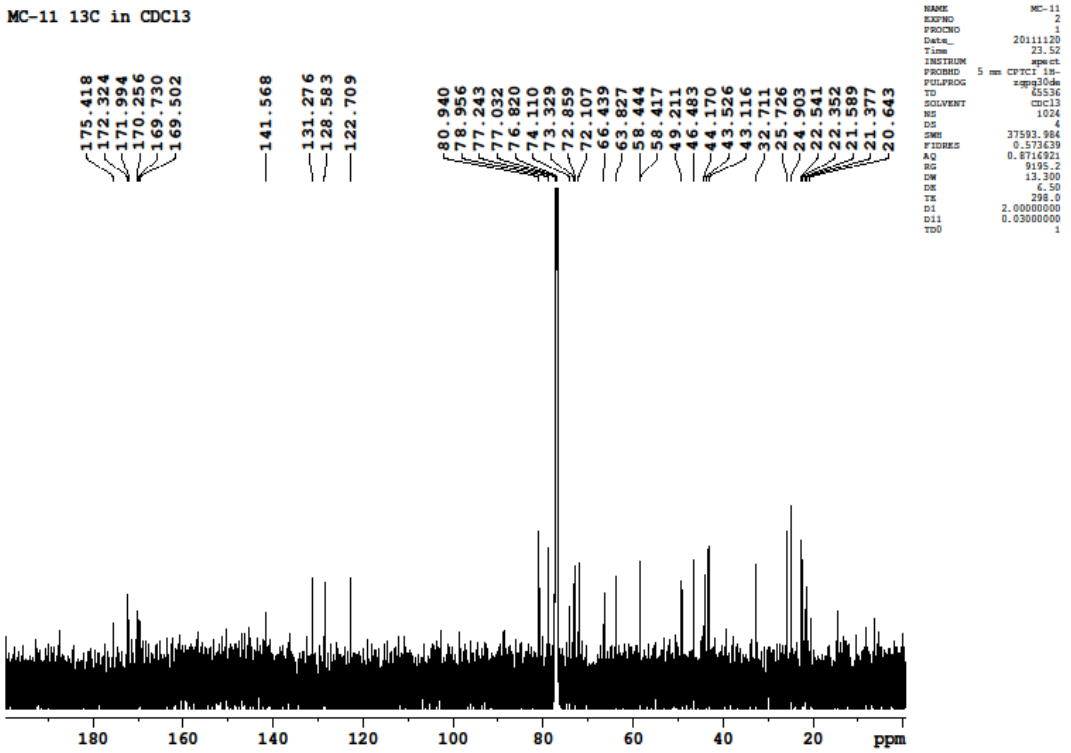


Figure S28. DEPT spectrum of compound **4** in $CDCl_3$.

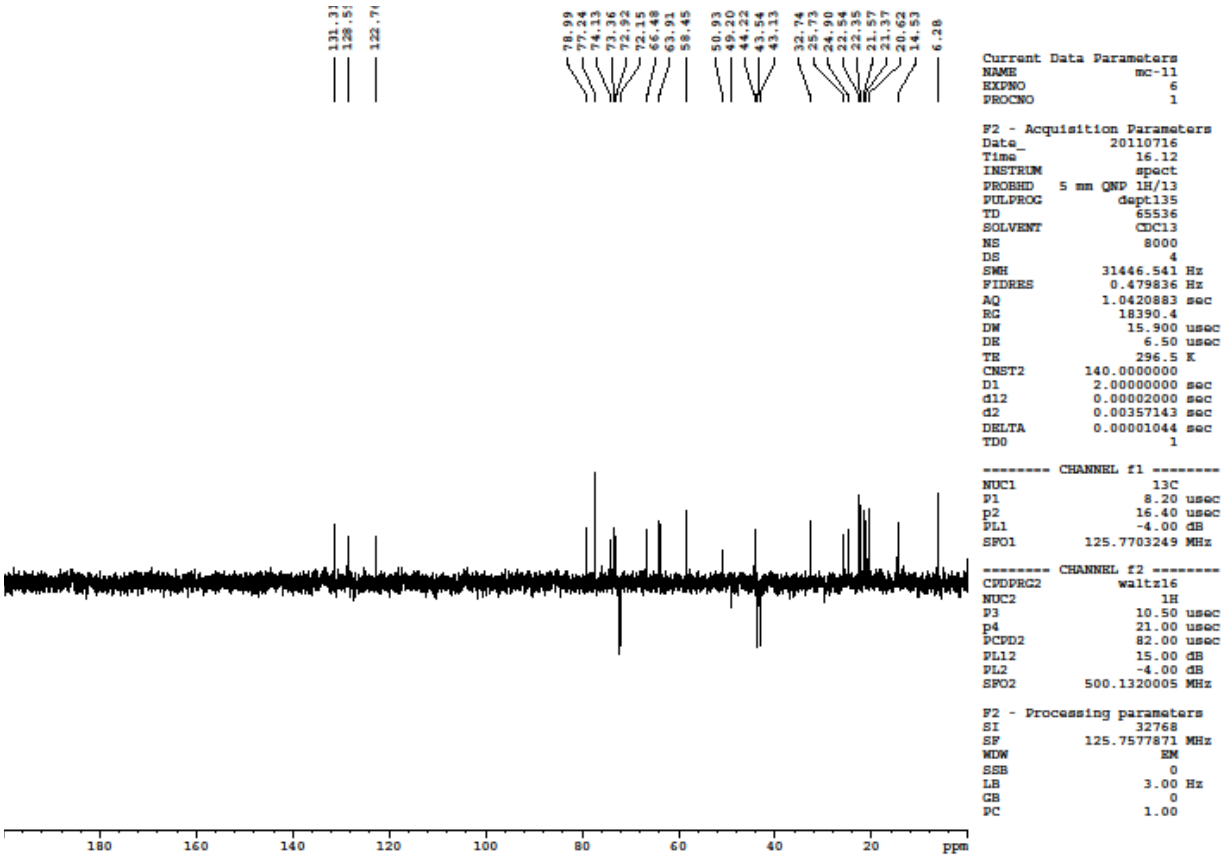


Figure S29. HSQC spectrum of compound **4** in $CDCl_3$.

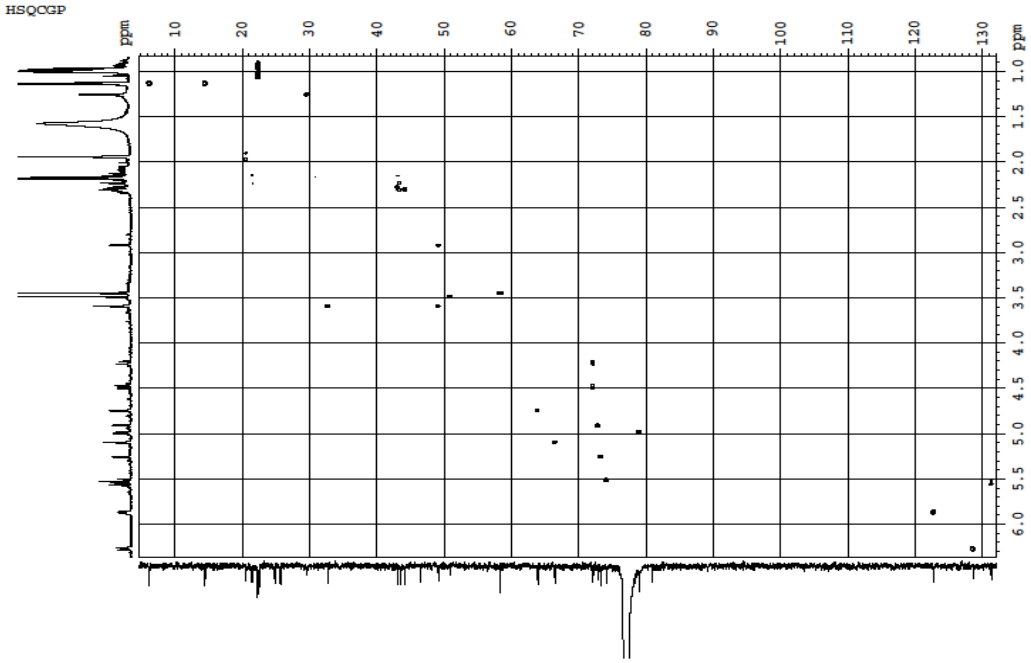


Figure S30. ^{1}H-^{1}H COSY spectrum of compound **4** in $CDCl_3$.

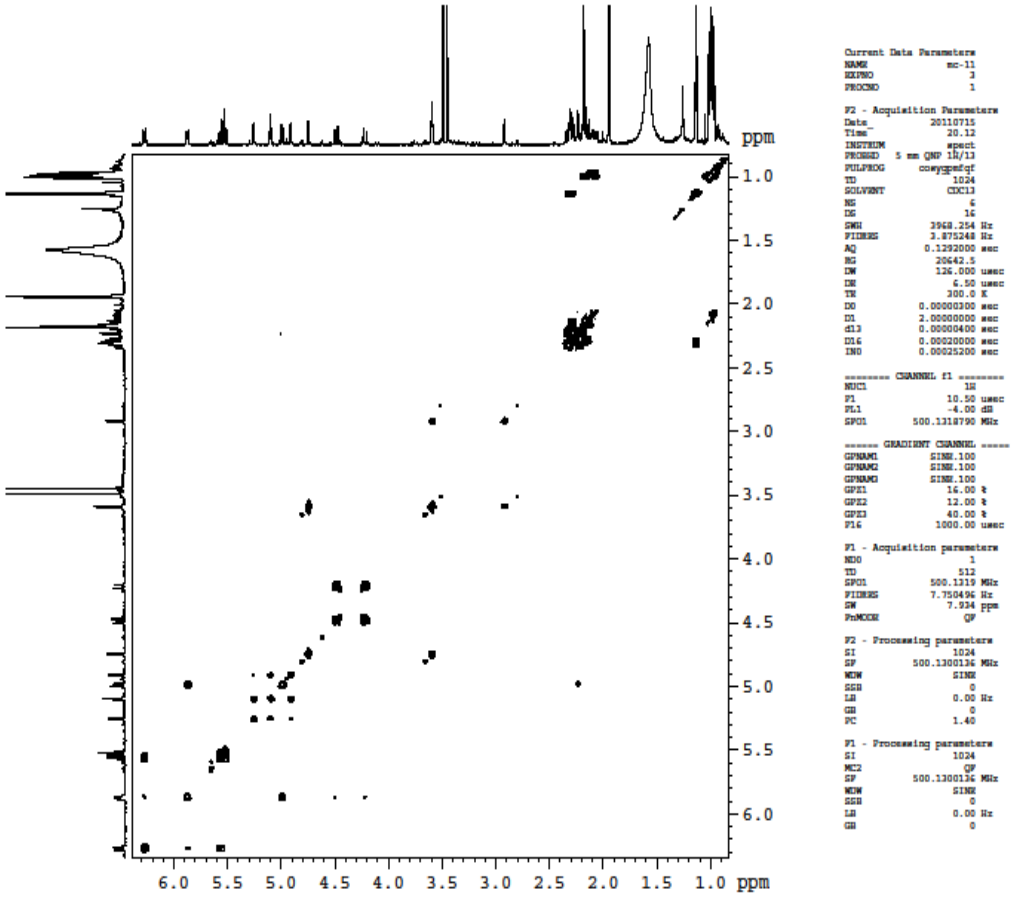


Figure S31. HMBC spectrum of compound **4** in $CDCl_3$.

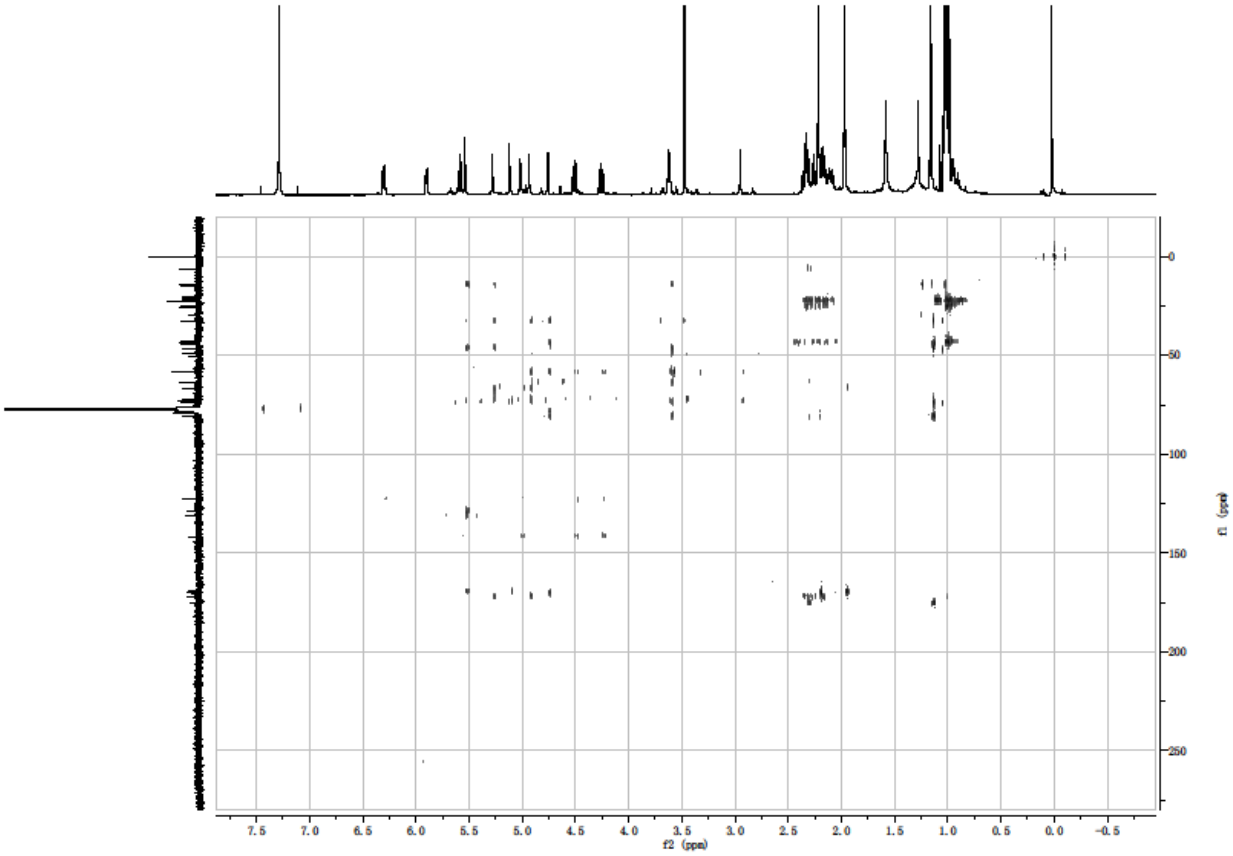


Figure S32. NOESY spectrum of compound **4** in $CDCl_3$.

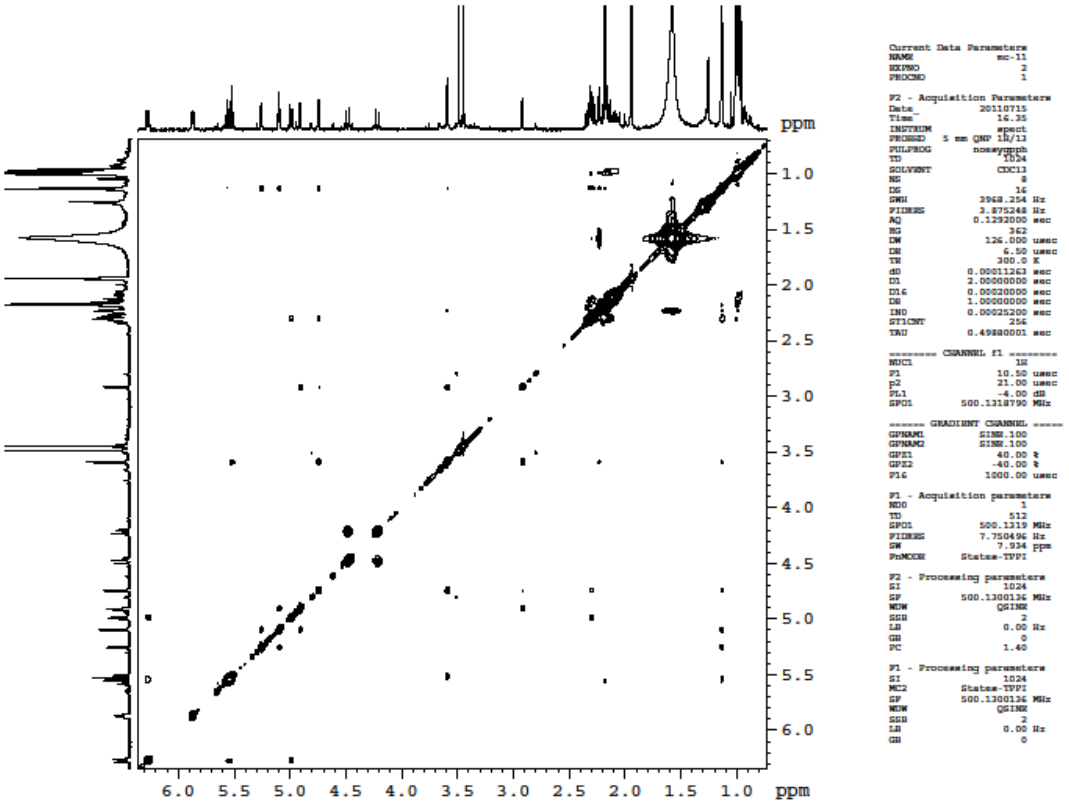


Figure S33. HR-ESIMS spectrum of the new compound **5**.

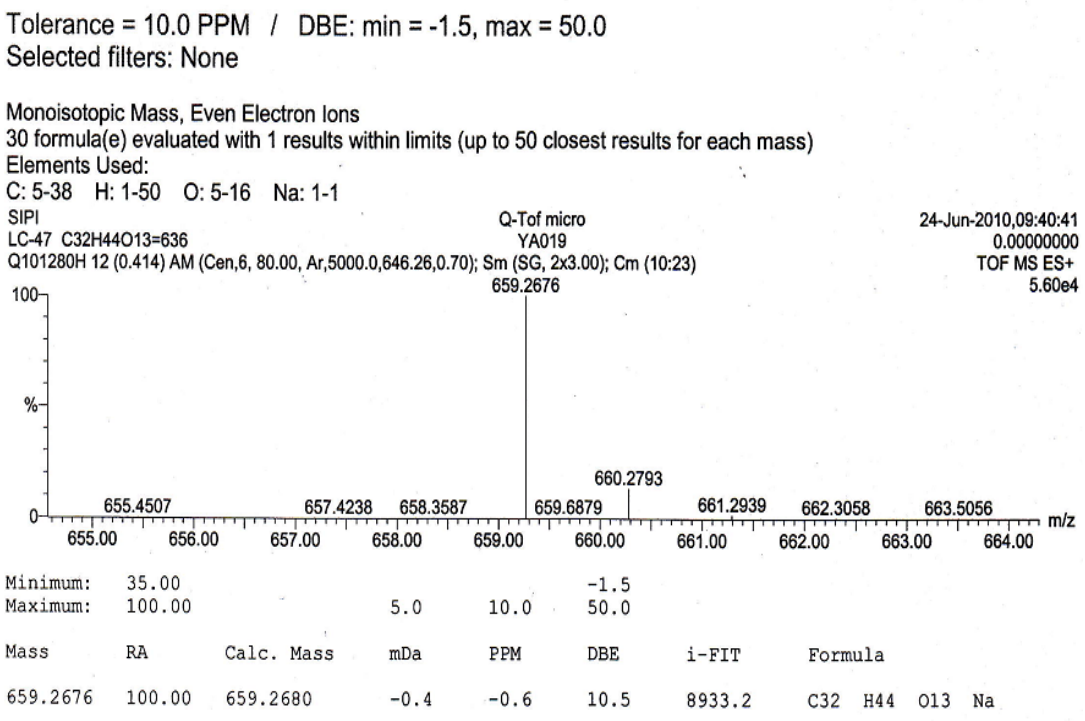


Figure S34. ^{1}H MNR (400 MHz, $CDCl_3$) spectrum of the new compound **5**.

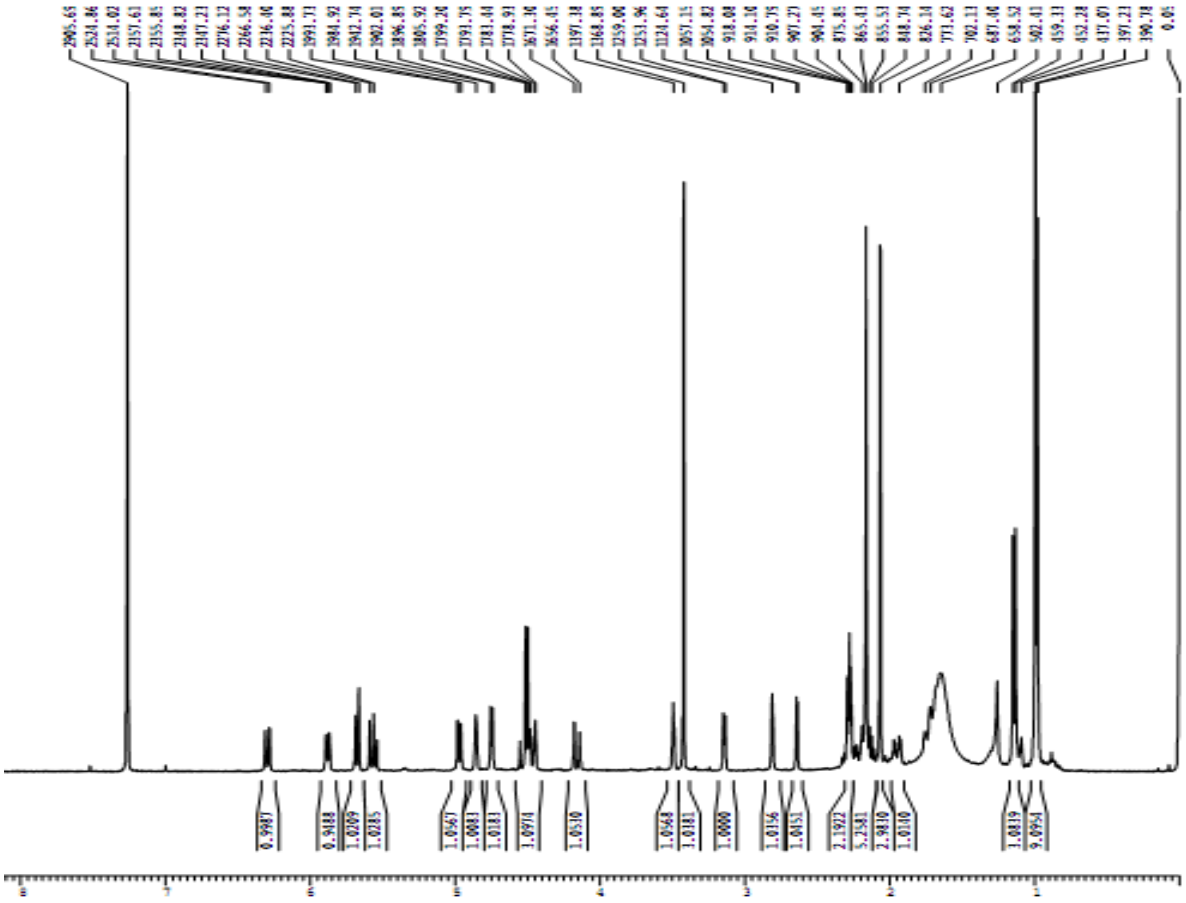


Figure S35. ^{13}C MNR (100 MHz, $CDCl_3$) spectrum of the new compound **5**.

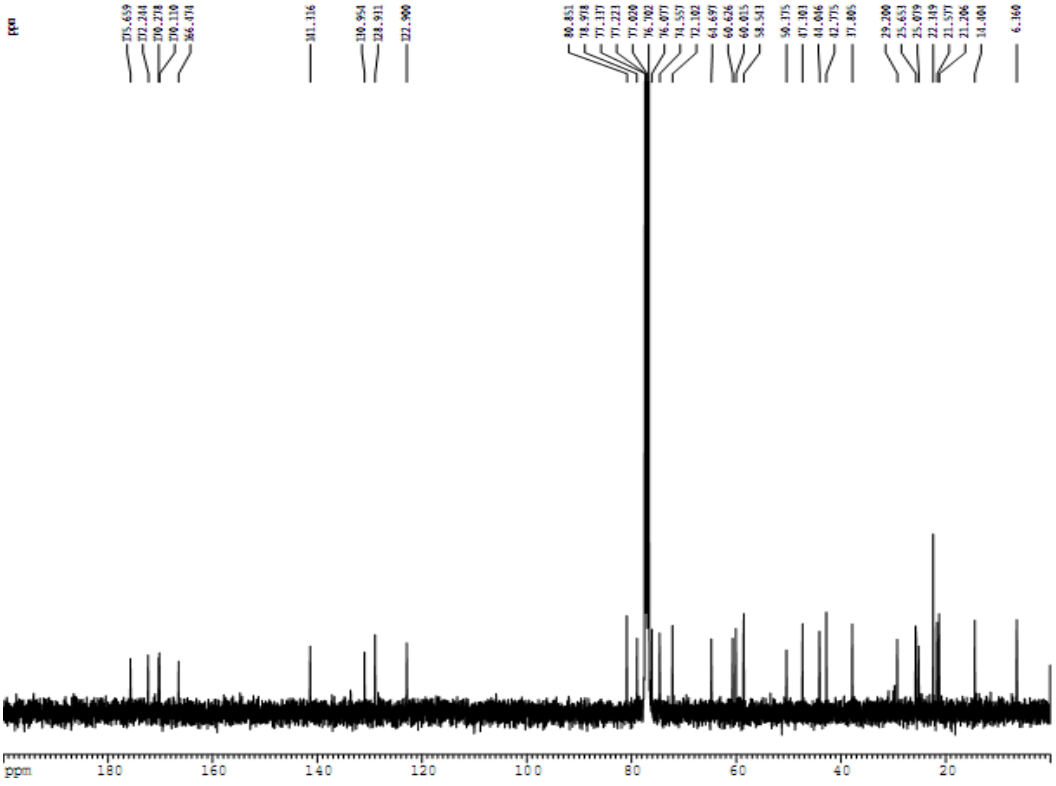


Figure S36. DEPT spectrum of the new compound **5**.

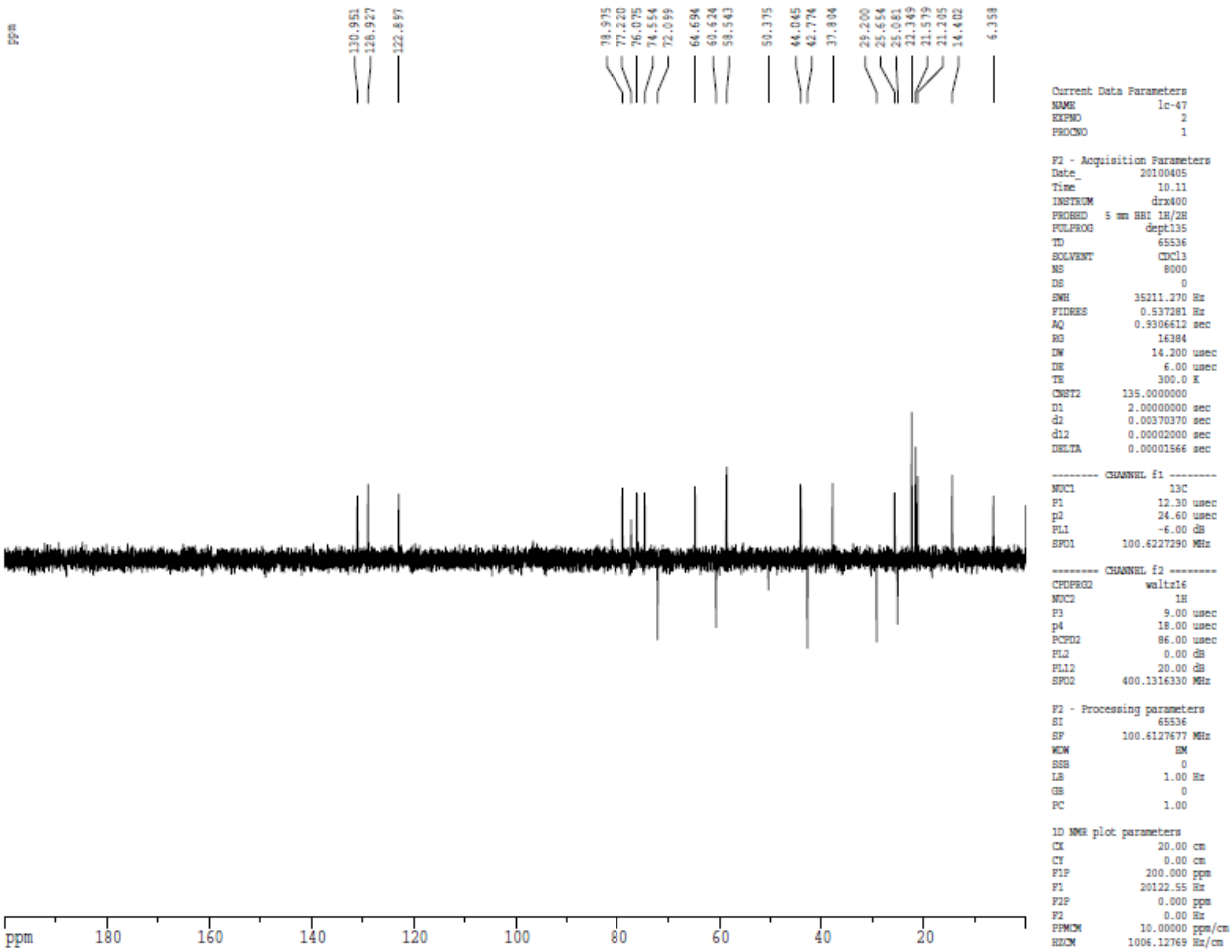


Figure S37. HSQC spectrum of the new compound **5**.

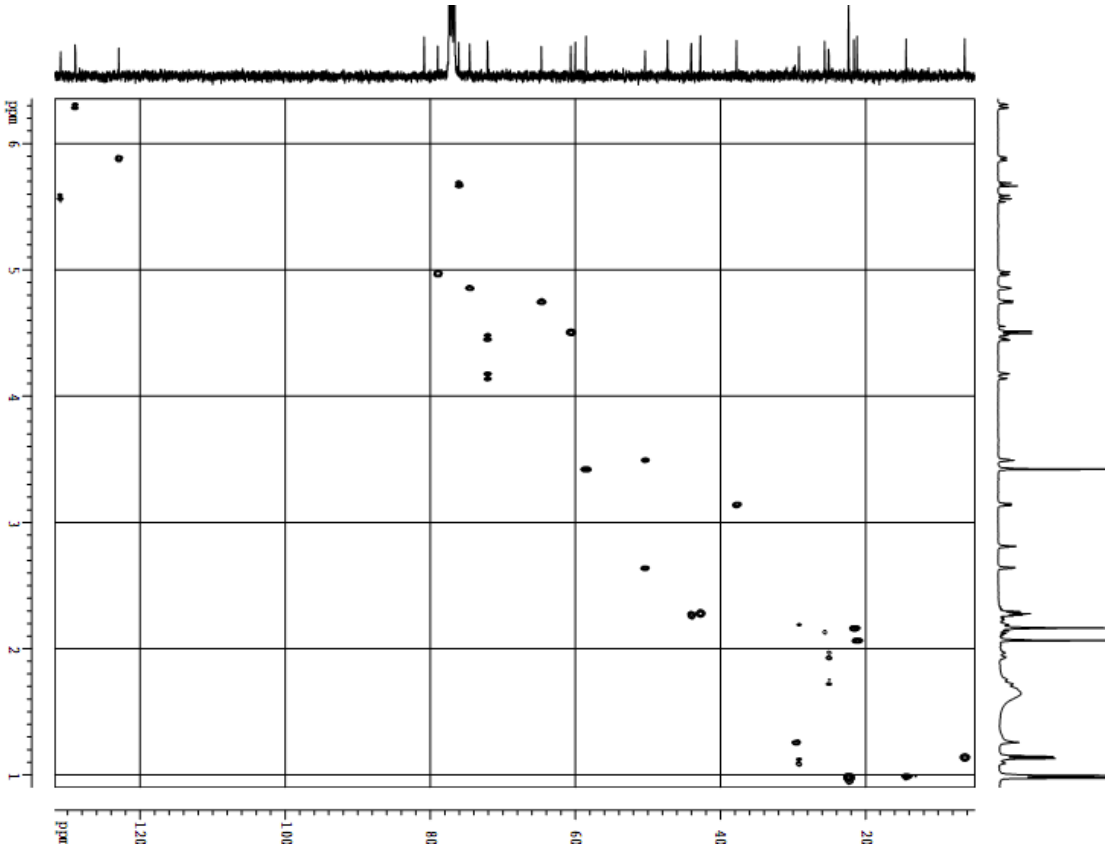


Figure S38. ^{1}H-^{1}H COSY spectrum of the new compound **5**.

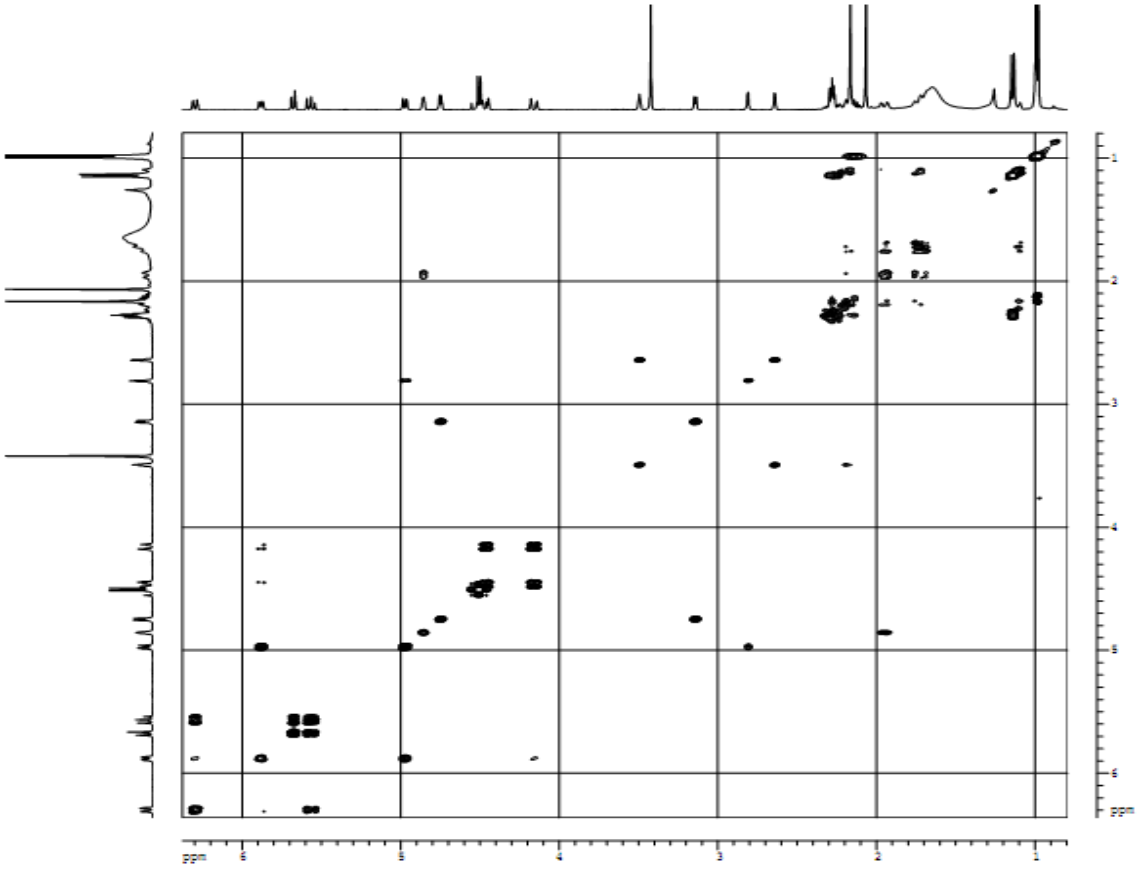


Figure S39. HMBC spectrum of the new compound **5**.

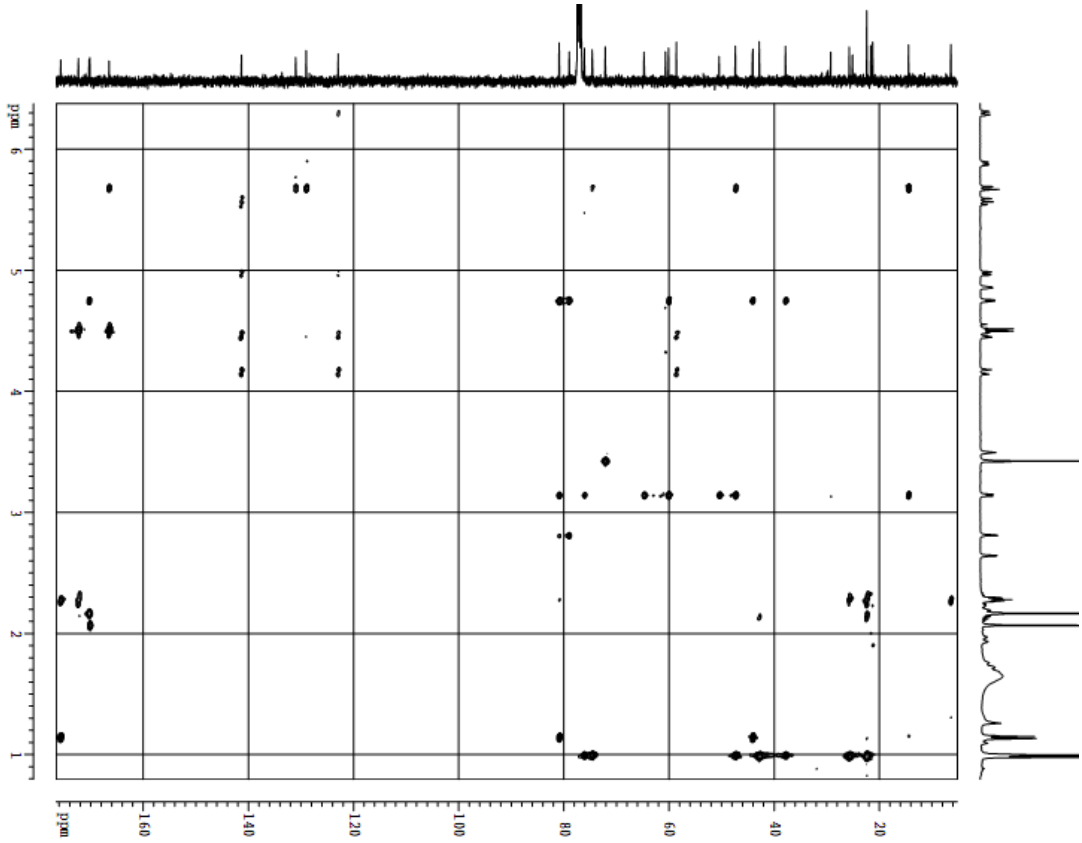


Figure S40. NOESY spectrum of the new compound **5**.

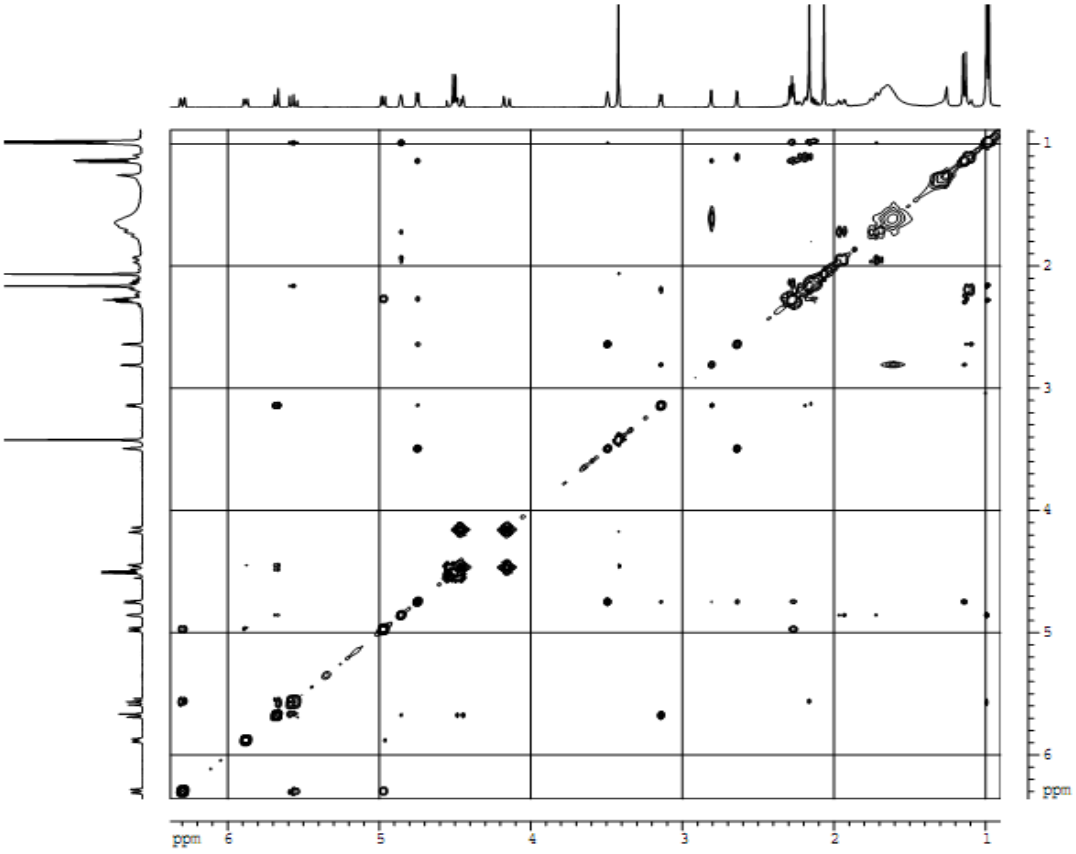


Figure S41. HR-ESIMS spectrum of the new compound **6**.

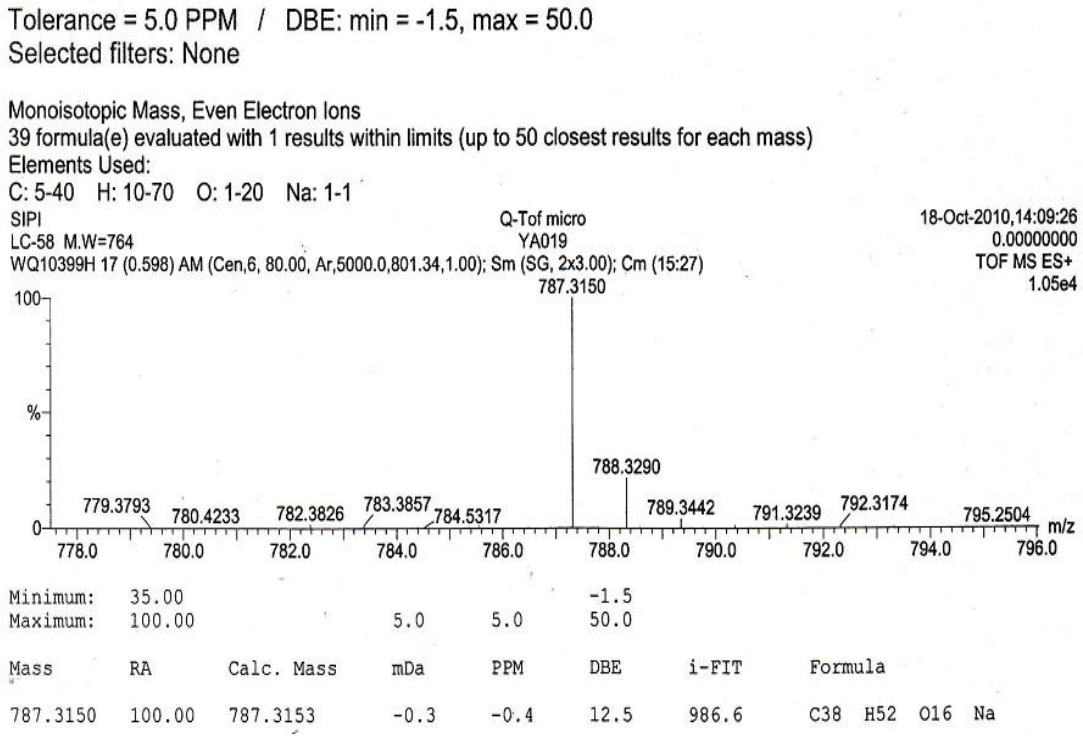


Figure S42. ^{1}H NMR spectrum of the new compound **6**.

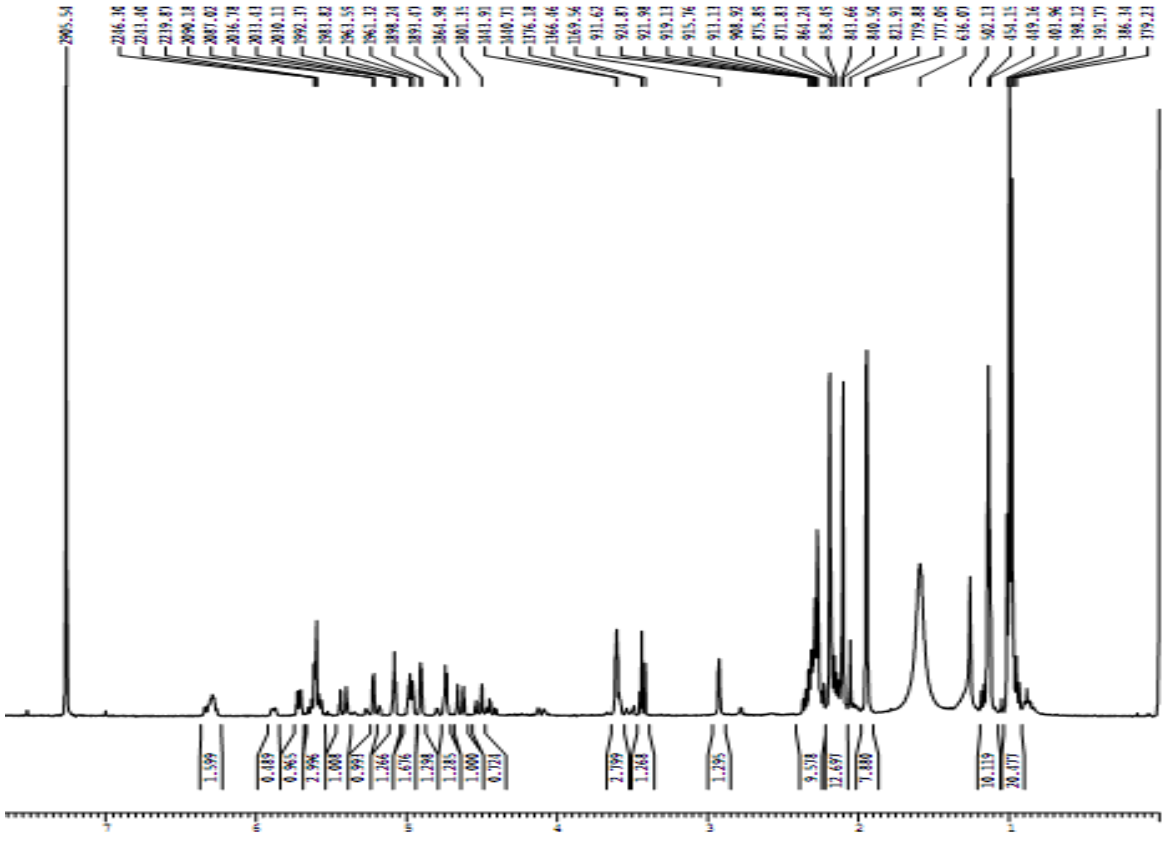


Figure S43. ^{13}C NMR spectrum of the new compound **6**.

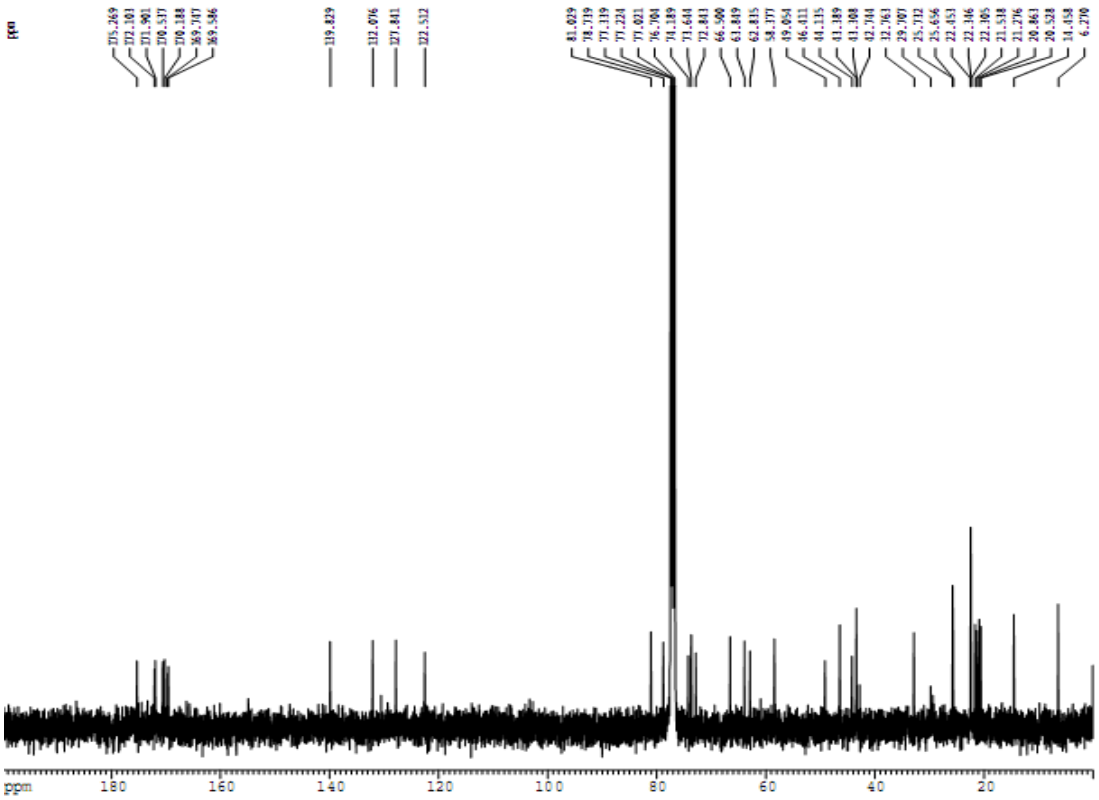


Figure S44. DEPT spectrum of the new compound **6**.

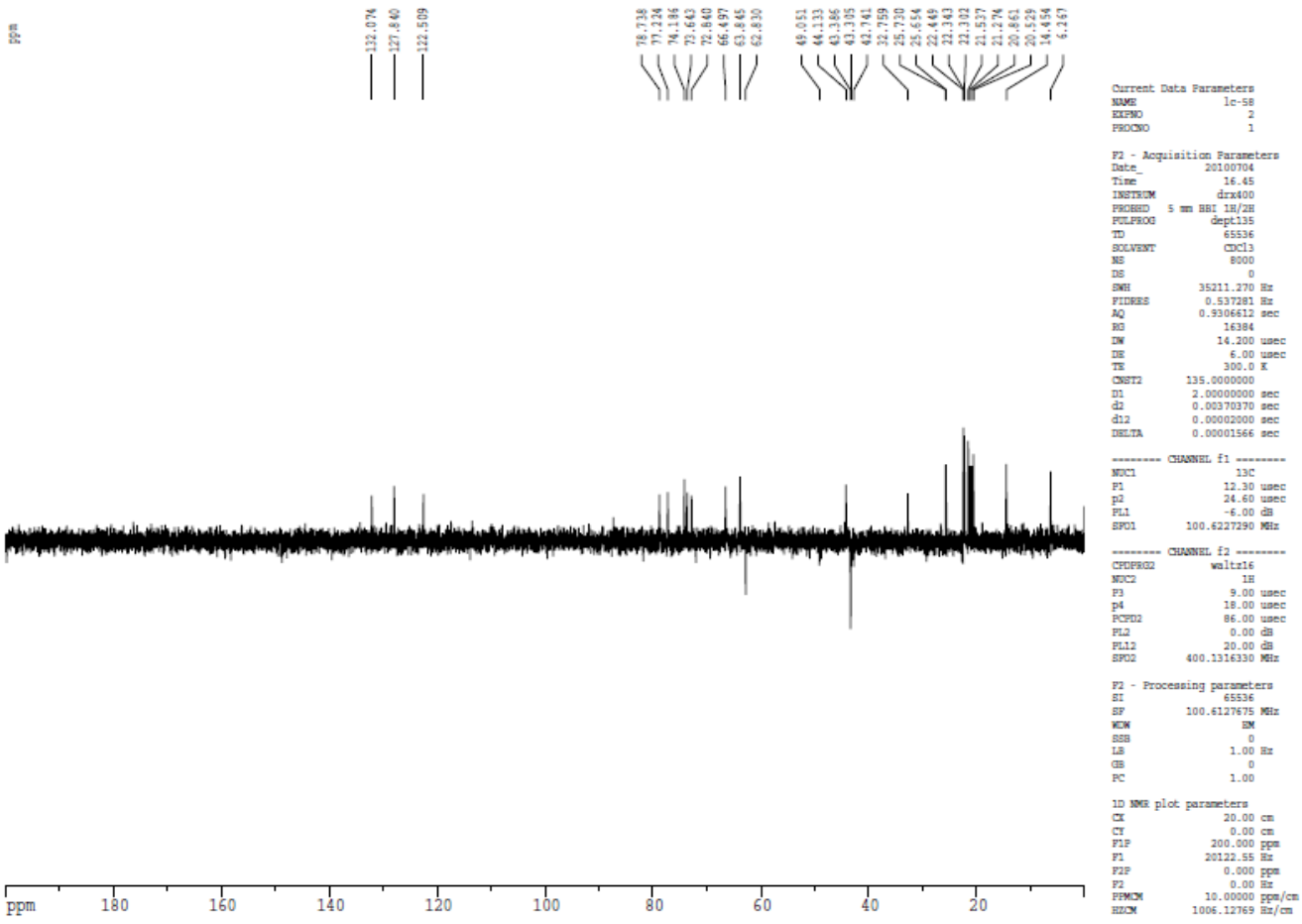


Figure S45. HSQC spectrum of the new compound **6**.

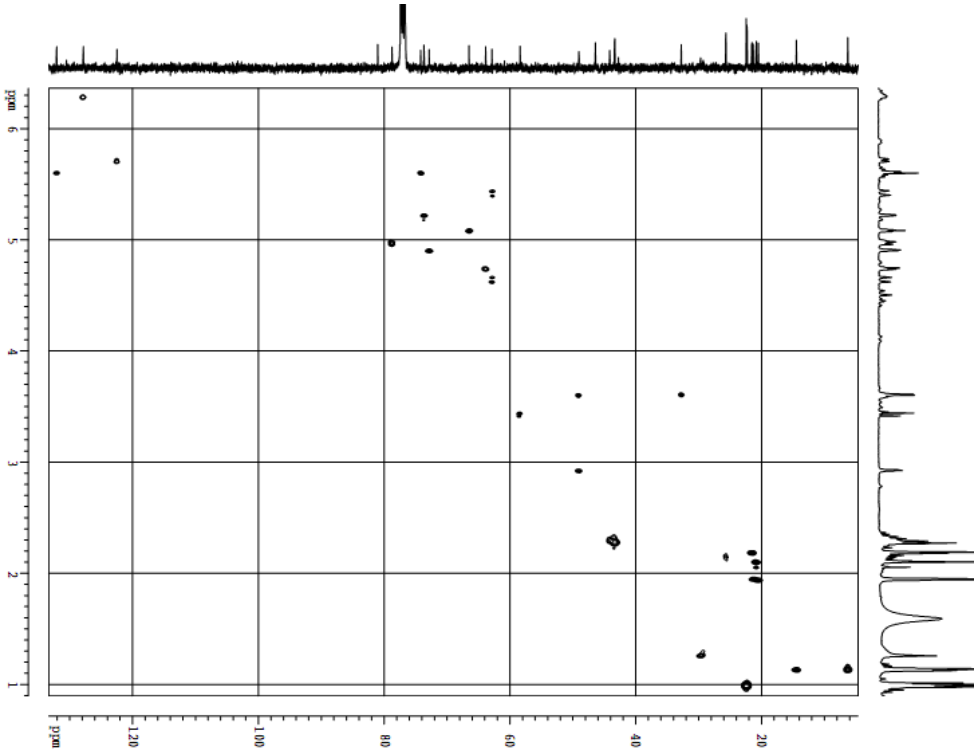


Figure S46. ^{1}H-^{1}H COSY spectrum of the new compound **6**.

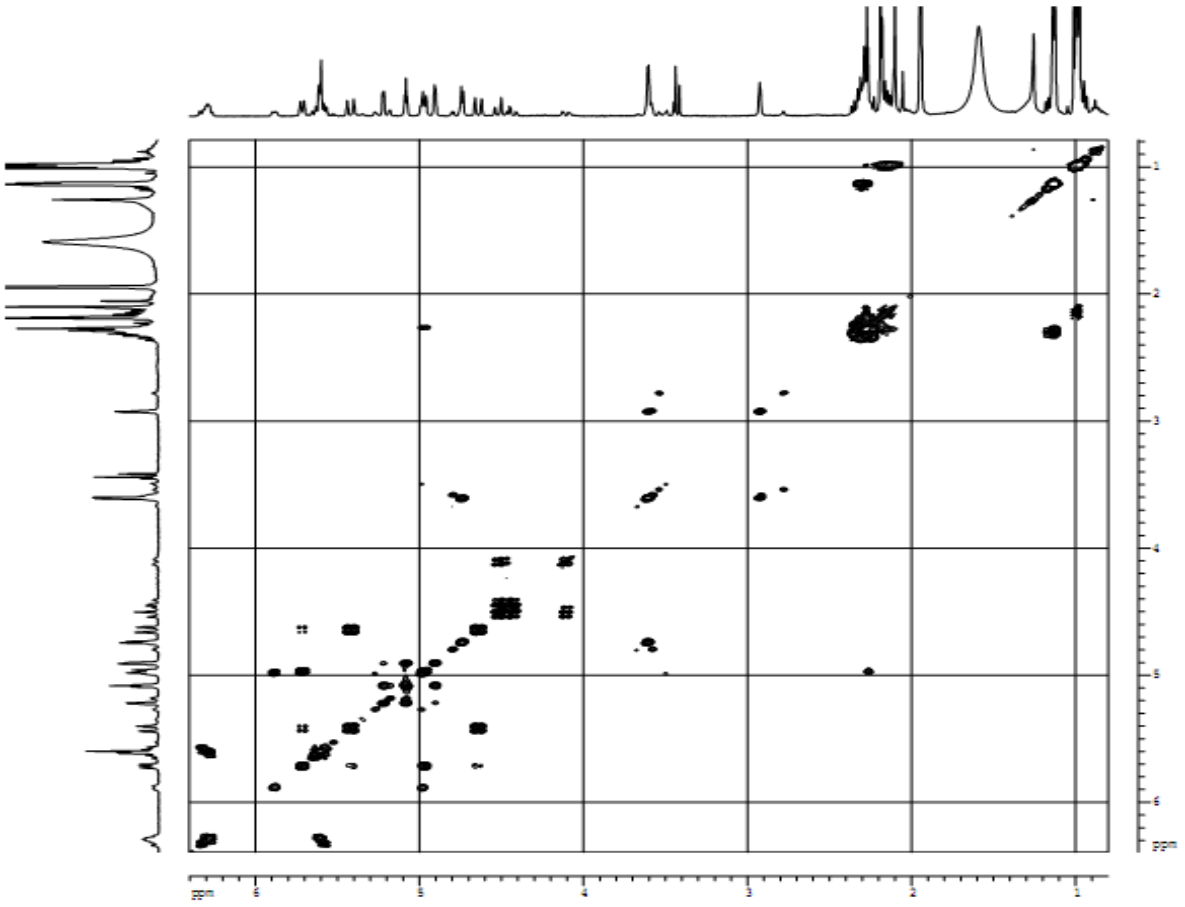


Figure S47. HMBC spectrum of the new compound **6**.

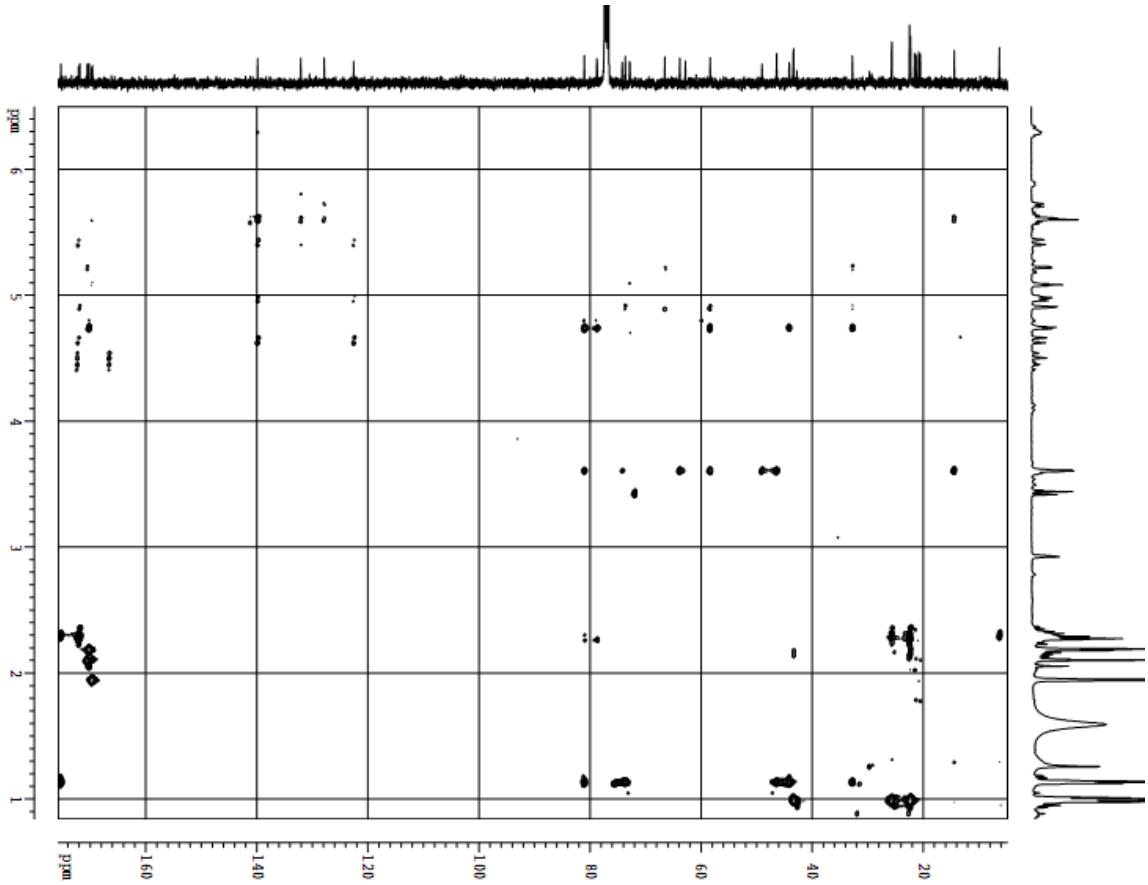


Figure S48. NOESY spectrum of the new compound **6**.

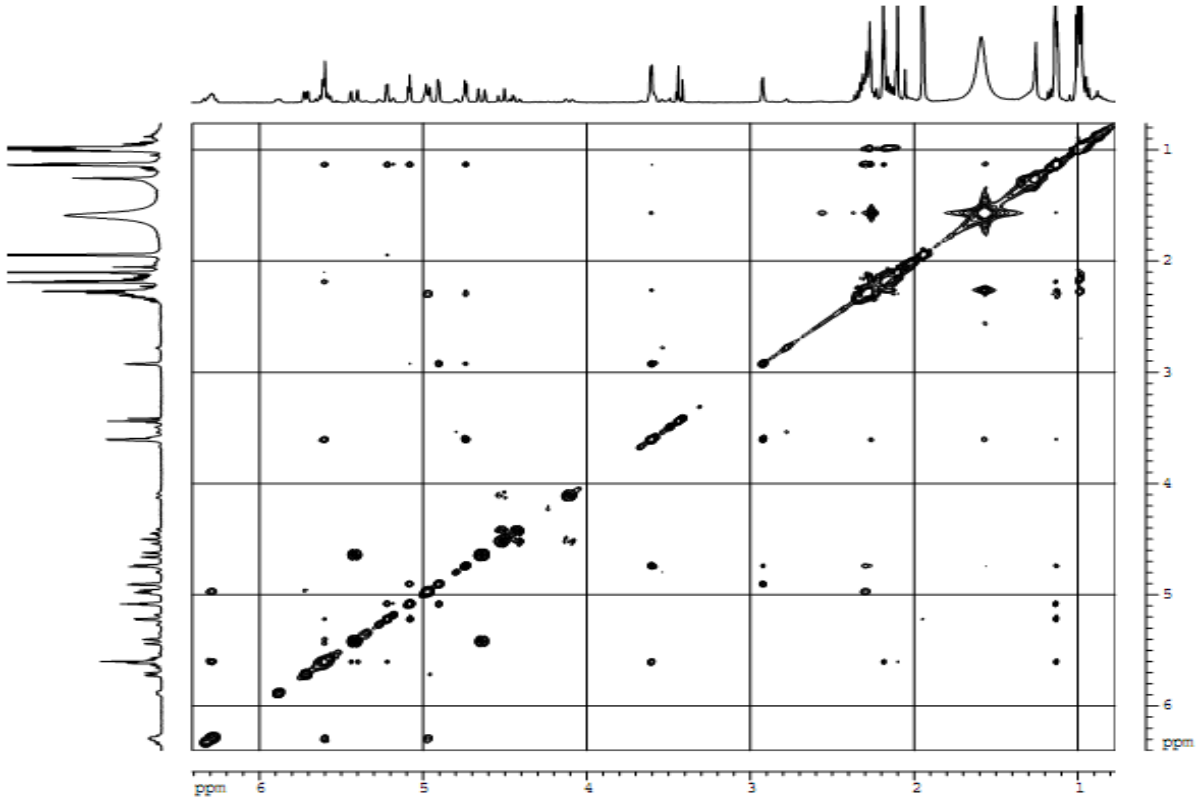


Figure S49. HRESIMS spectrum of compound **7**.

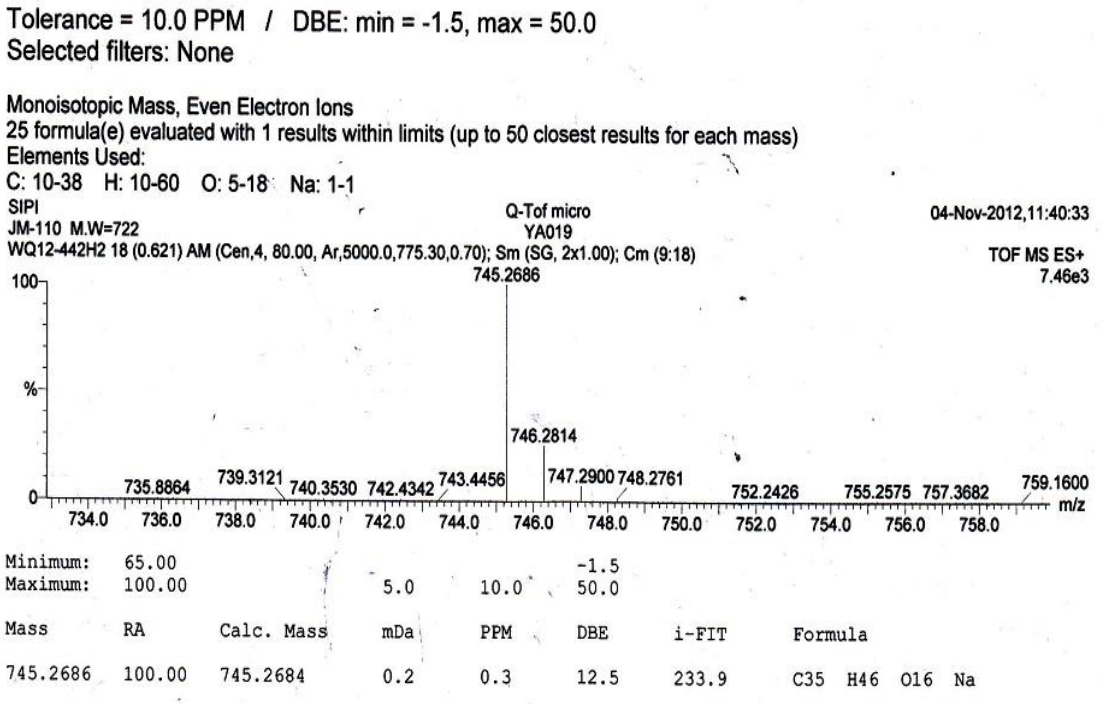


Figure S50. ^{1}H NMR spectrum of compound **7** in $CDCl_3$.

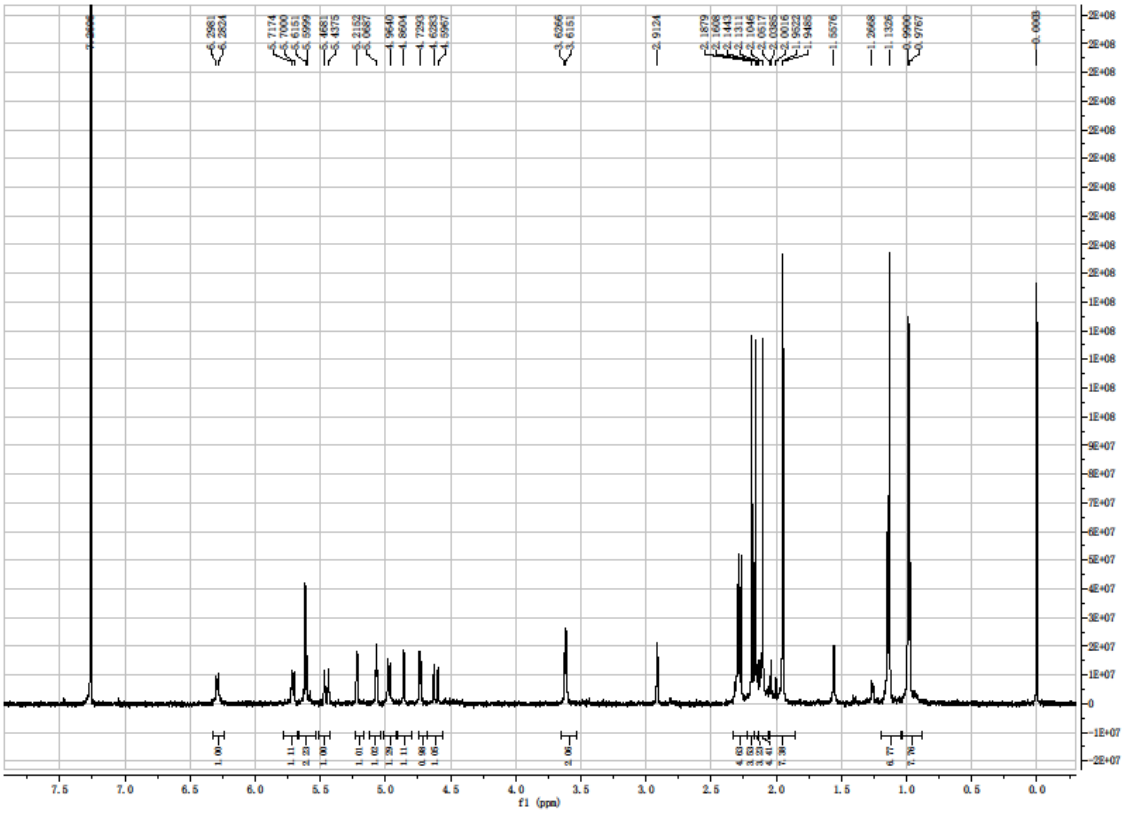


Figure S51. ^{13}C NMR spectrum of compound **7** in $CDCl_3$.

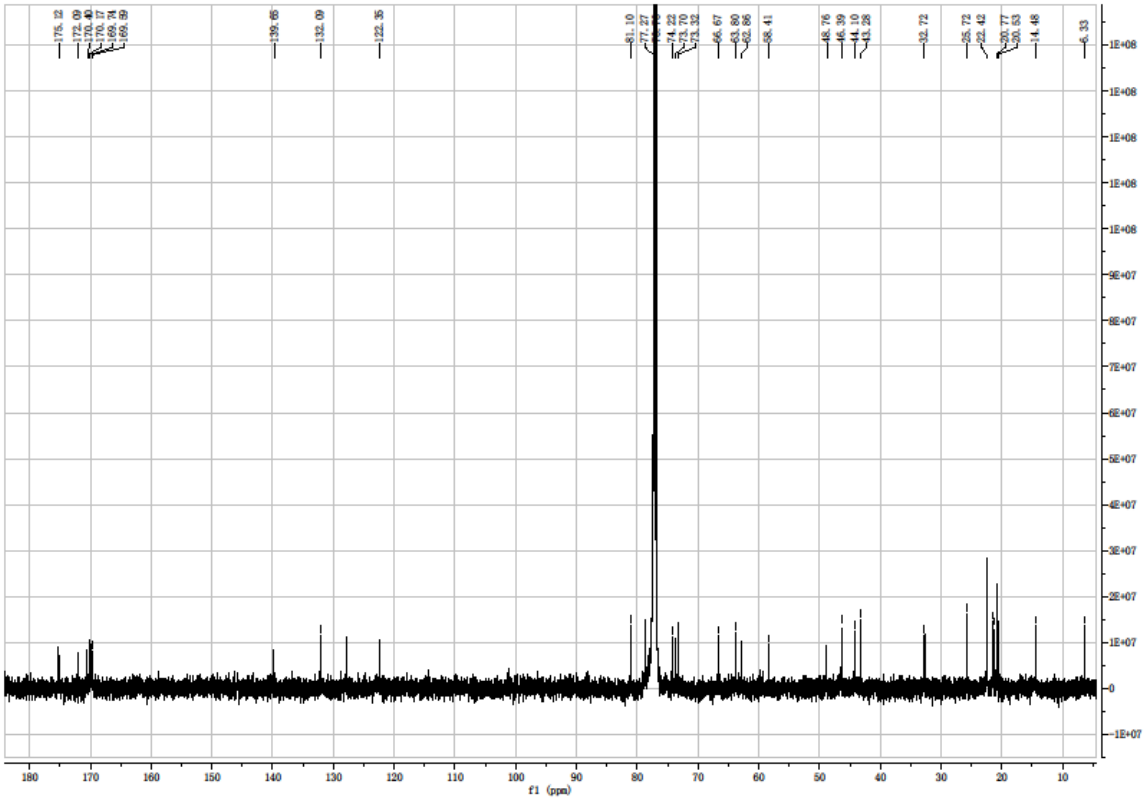


Figure S52. DEPT spectrum of compound **7** in $CDCl_3$.

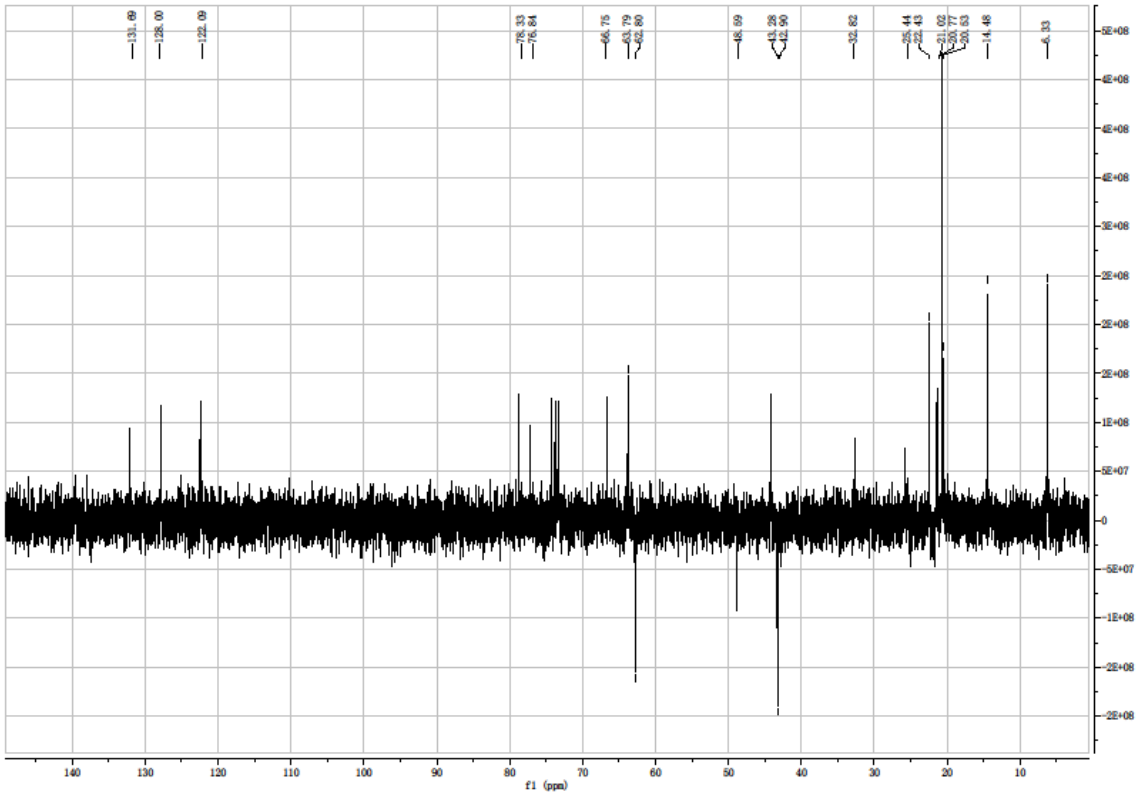


Figure S53. HSQC spectrum of compound **7** in $CDCl_3$.

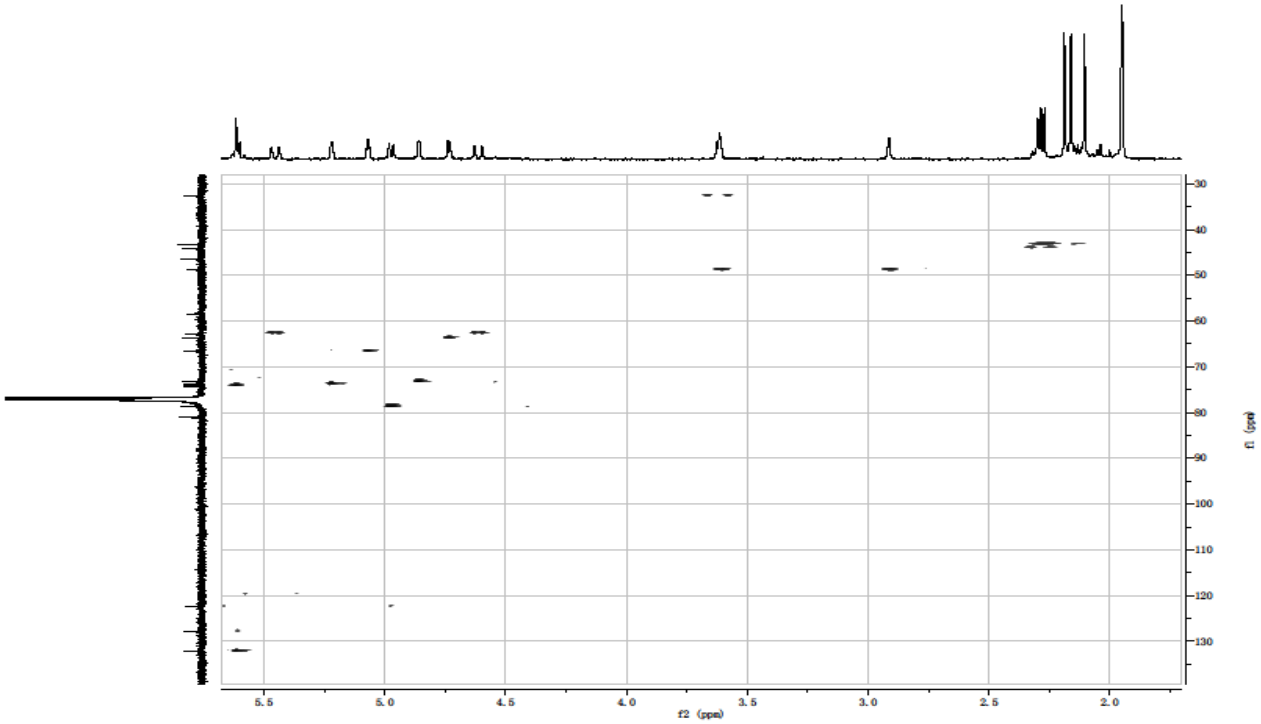


Figure S54. ^1H-^1H COSY spectrum of compound **7** in $CDCl_3$.

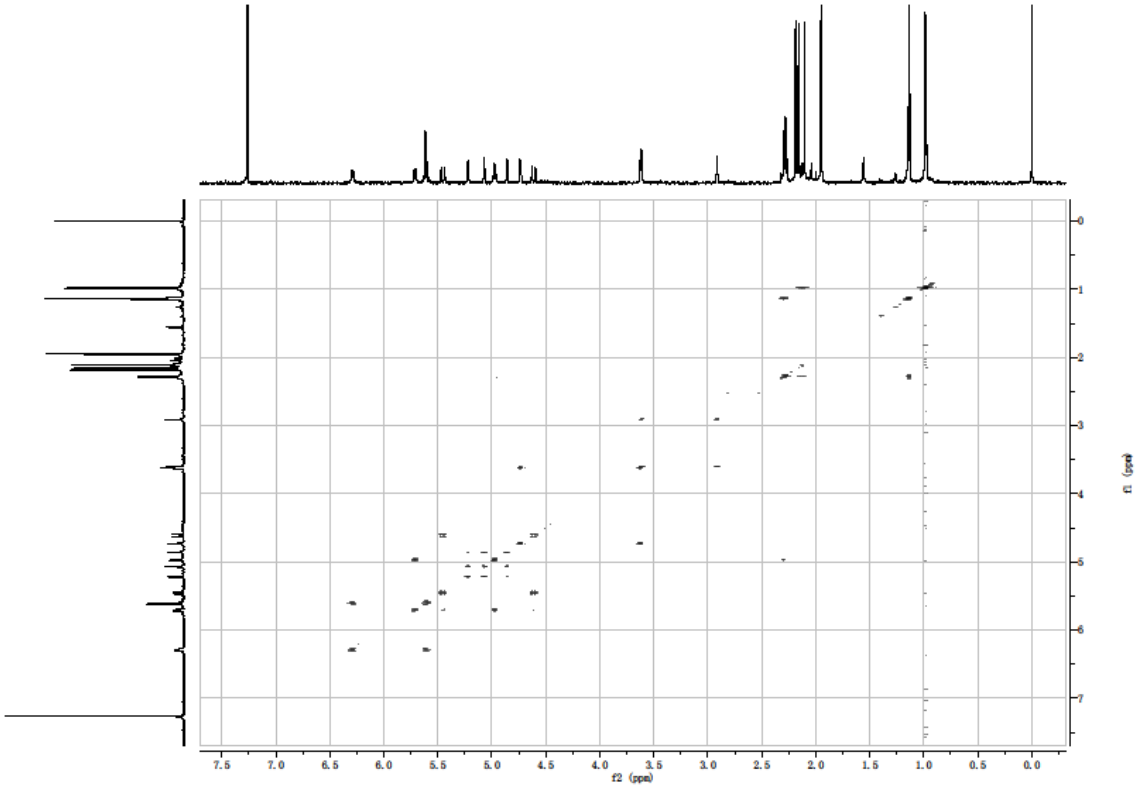


Figure S55. HMBC spectrum of compound **7** in $CDCl_3$.

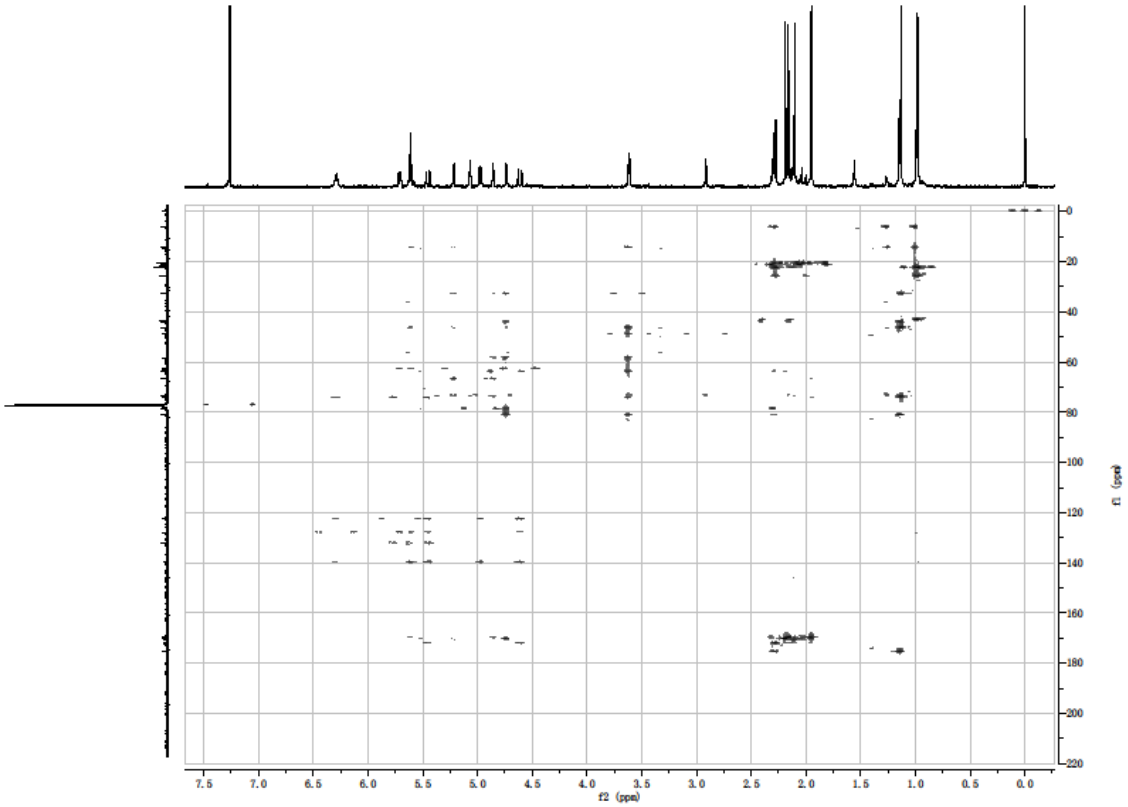


Figure S56. NOESY spectrum of compound **7** in $CDCl_3$.

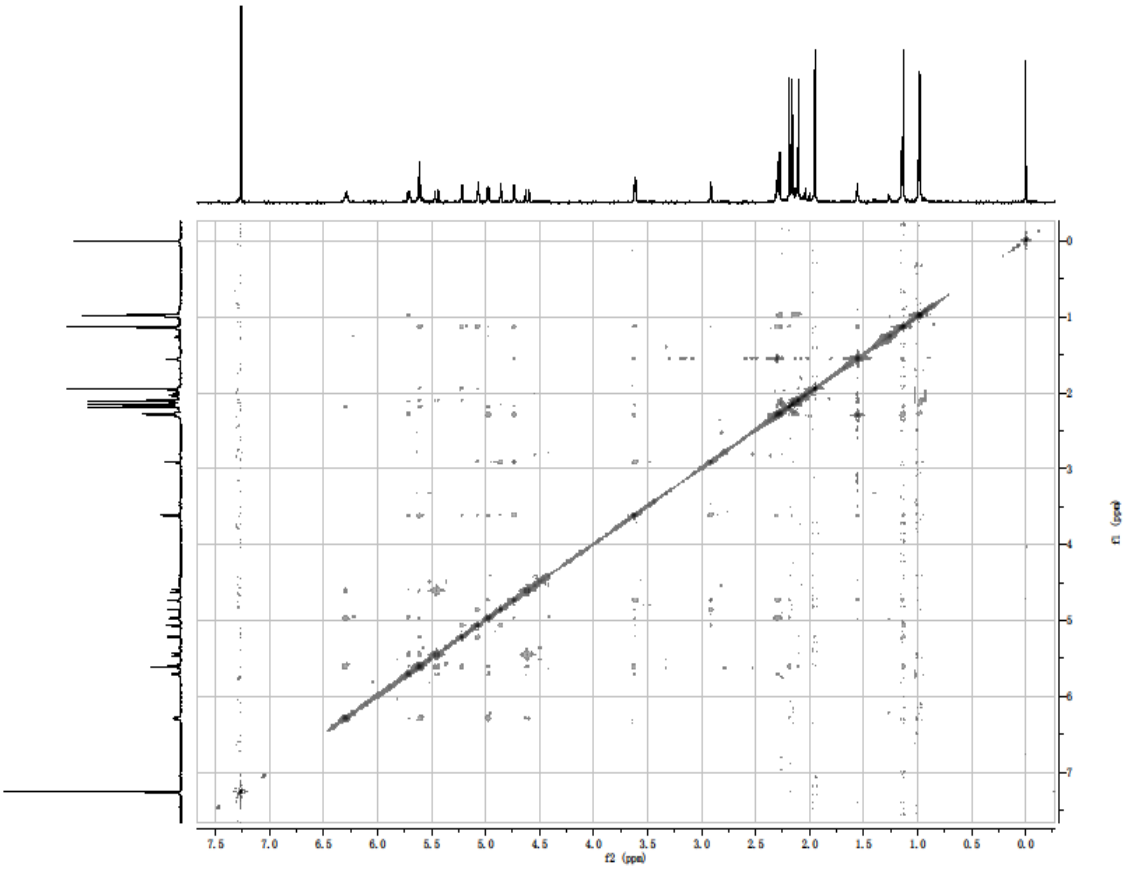


Figure S57. HR-ESIMS spectrum of the new compound **8**.

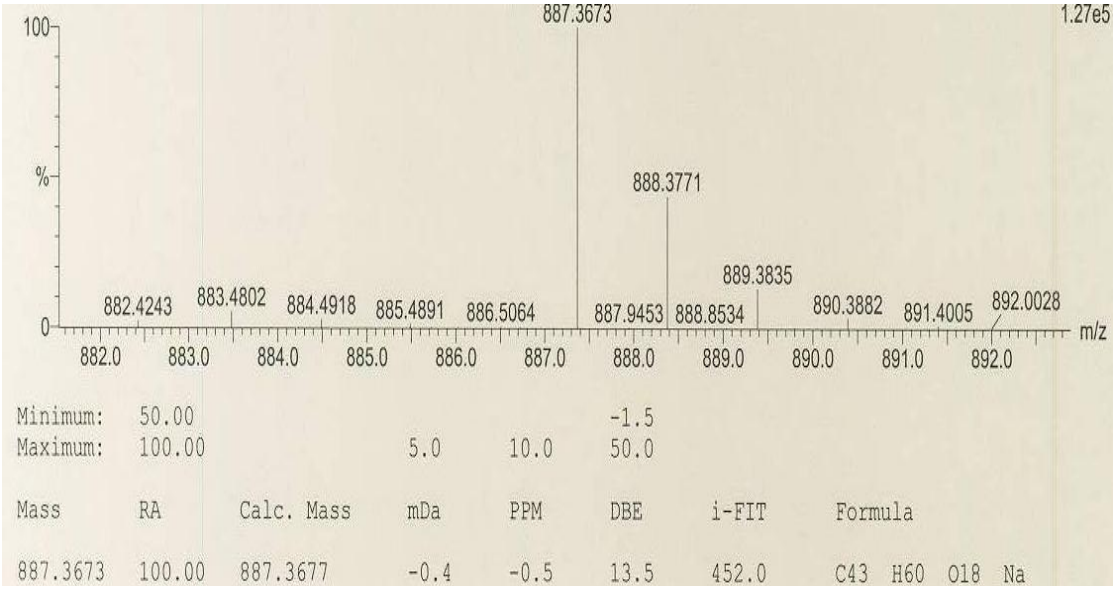


Figure S58. ^{1}H NMR spectrum of the new compound **8**.

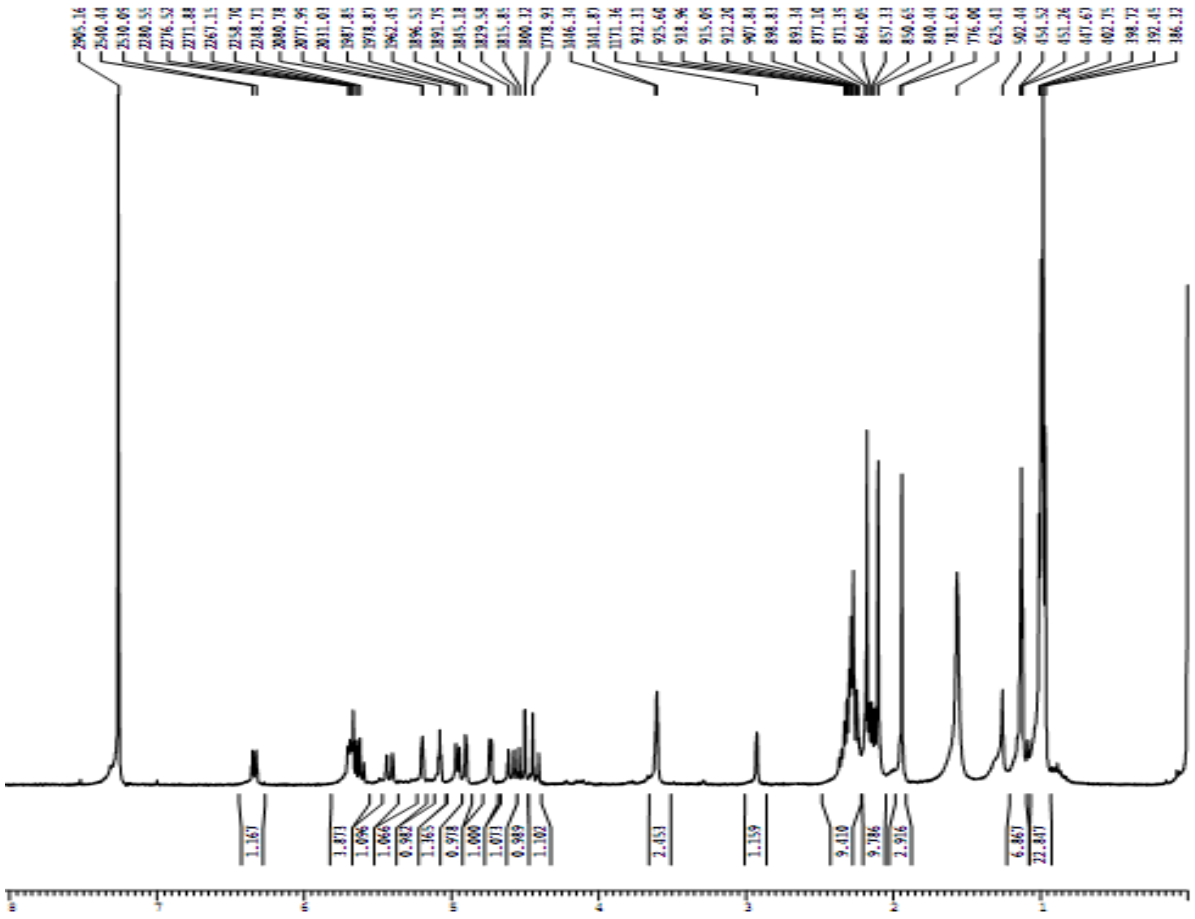


Figure S59. ^{13}C NMR spectrum of the new compound **8**.

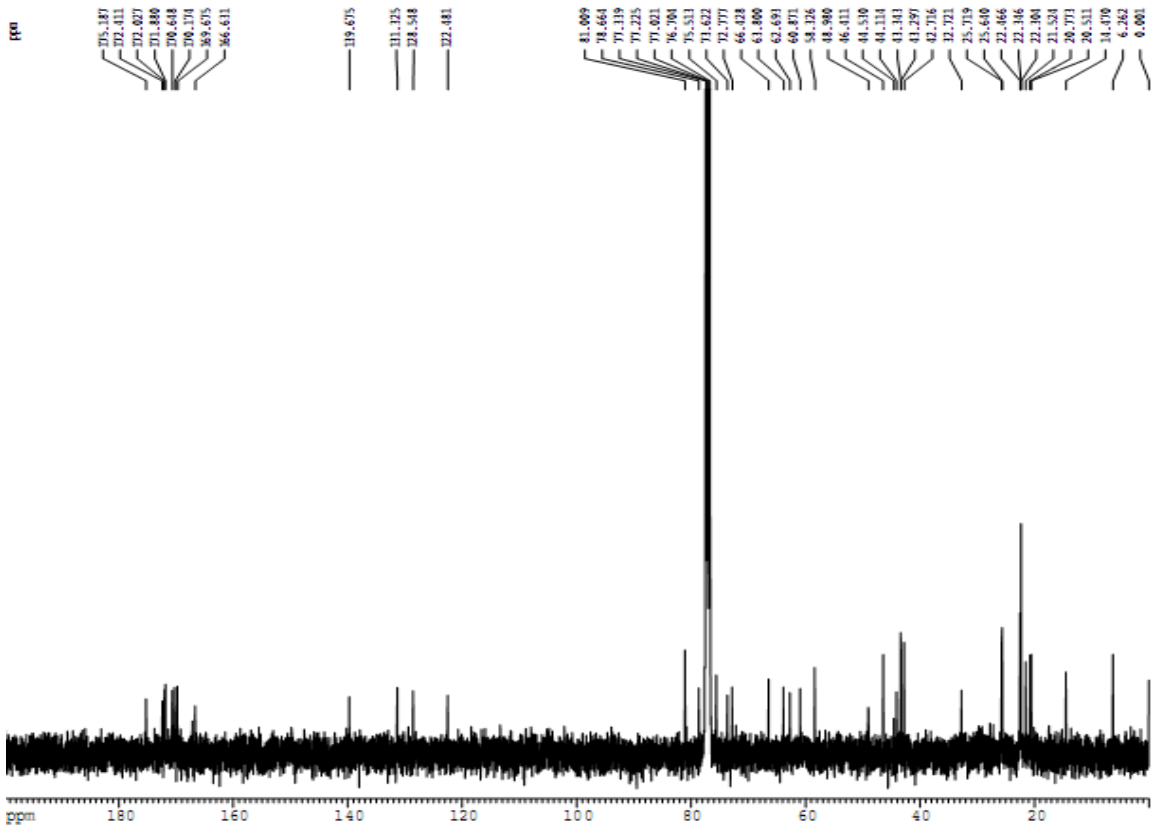


Figure S60. DEPT spectrum of the new compound **8**.

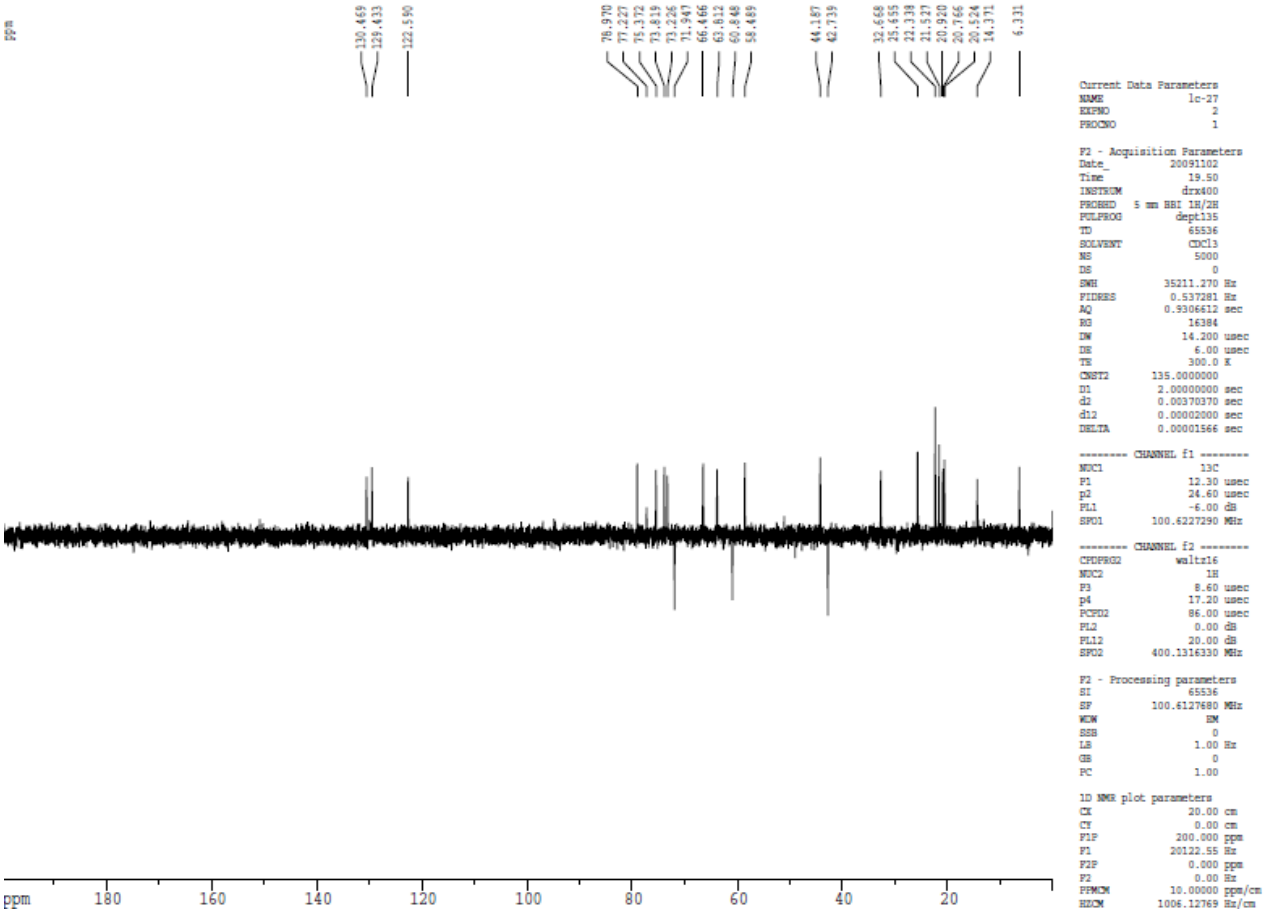


Figure S61. HSQC spectrum of the new compound **8**.

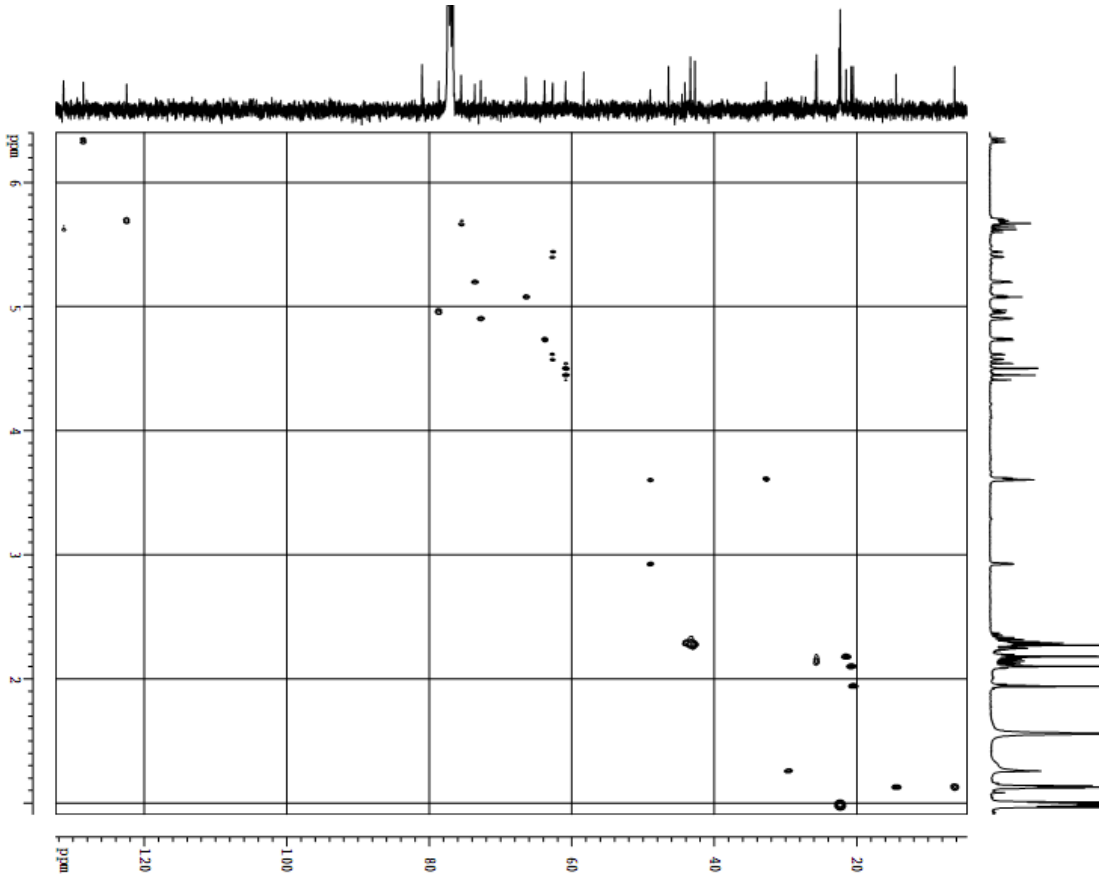


Figure S62. ^{1}H-^{1}H COSY spectrum of the new compound **8**.

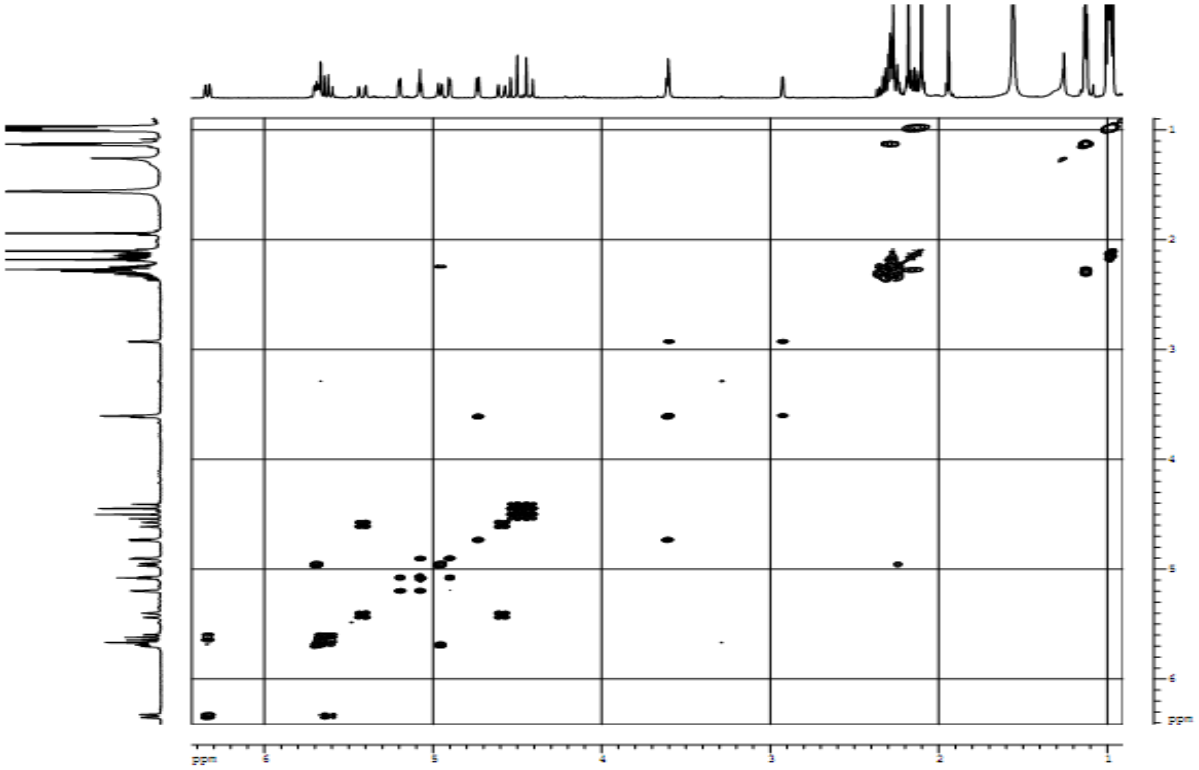


Figure S63. HMBC spectrum of the new compound **8**.

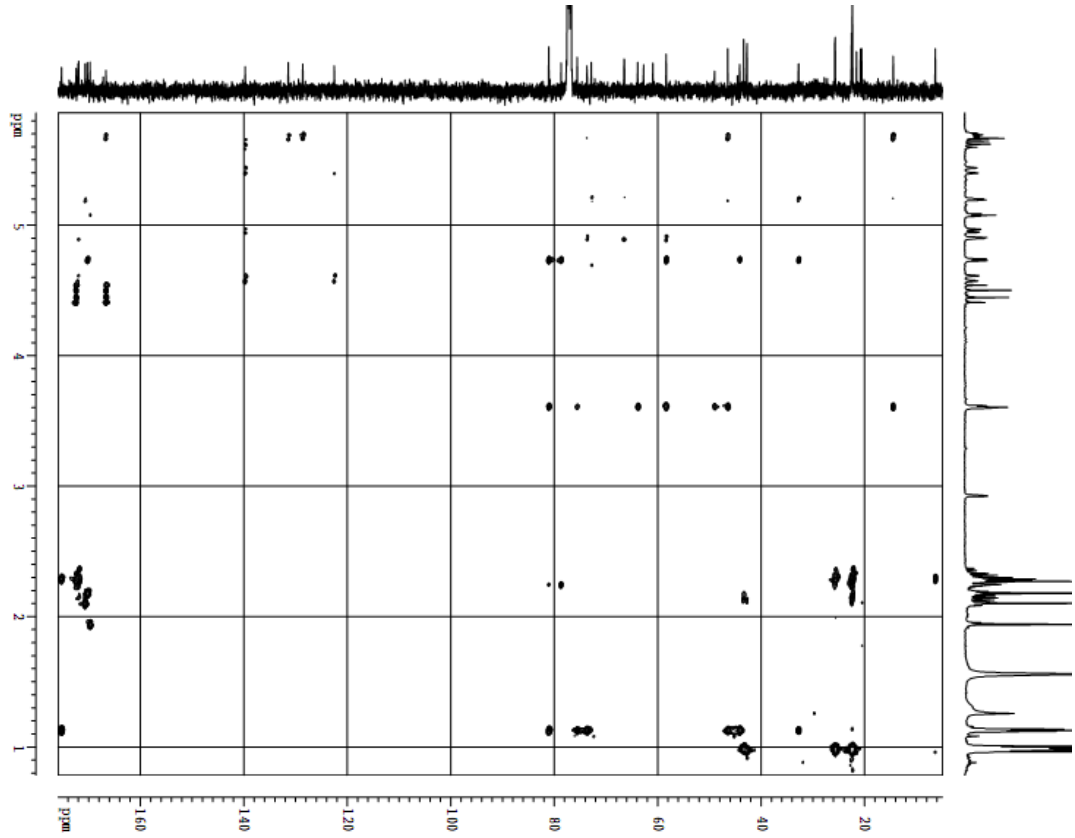


Figure S64. NOESY spectrum of the new compound **8**.

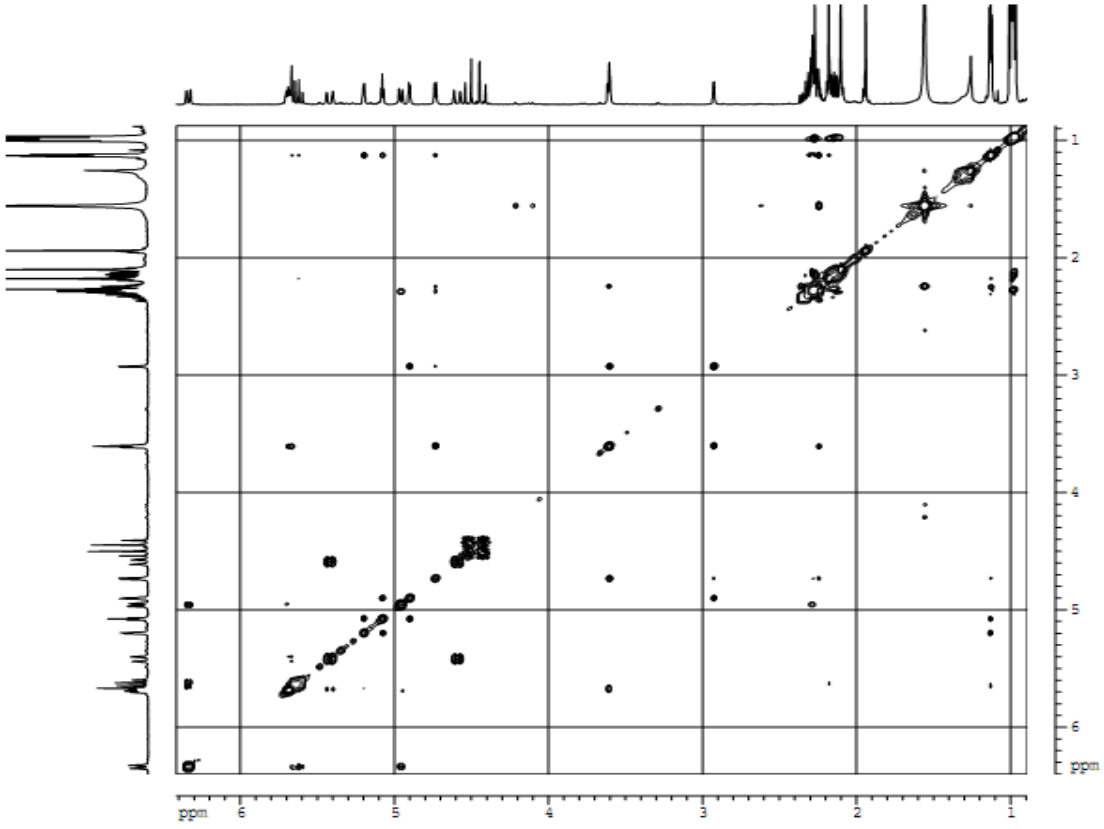


Figure S65. HRESIMS spectrum of compound **9**.

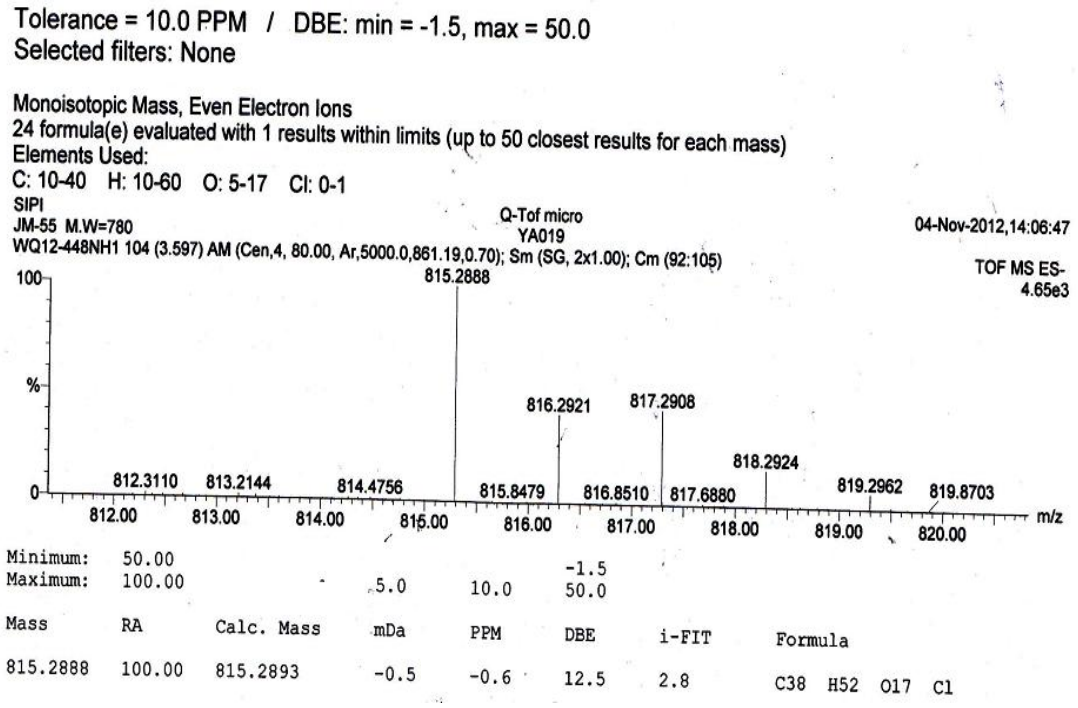


Figure S66. ^{1}H NMR spectrum of compound **9** in $CDCl_3$.

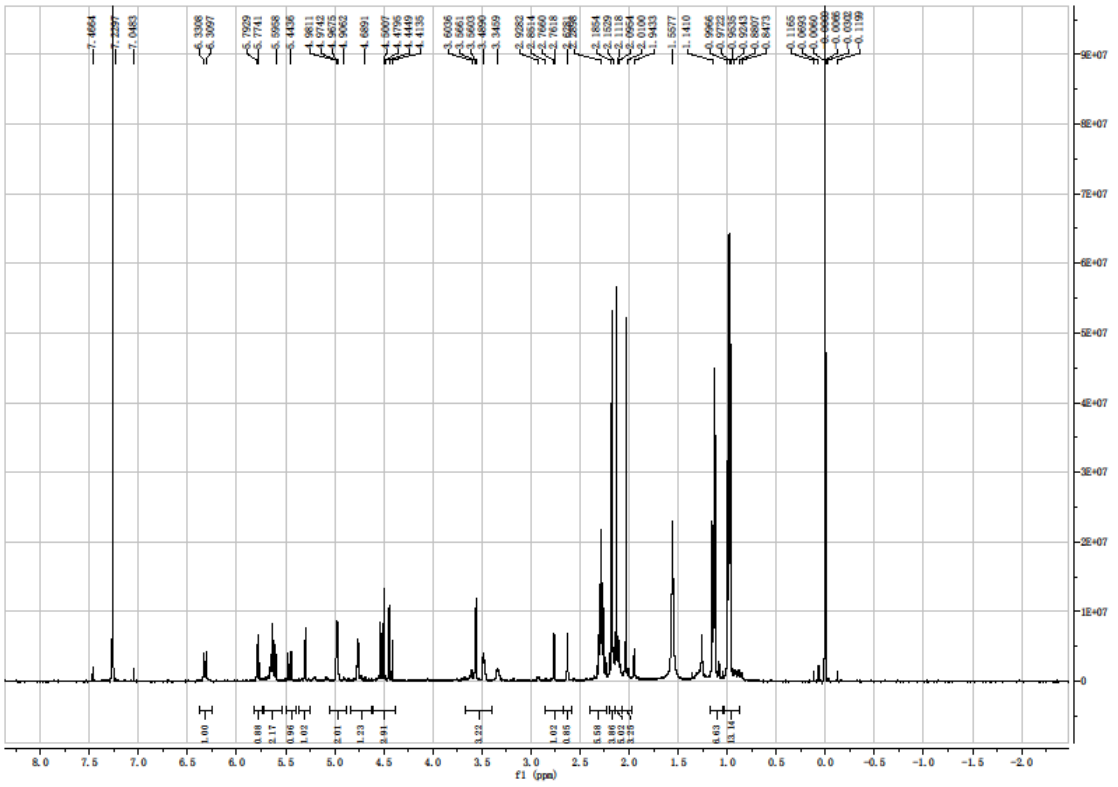


Figure S67. ^{13}C NMR spectrum of compound **9** in $CDCl_3$.

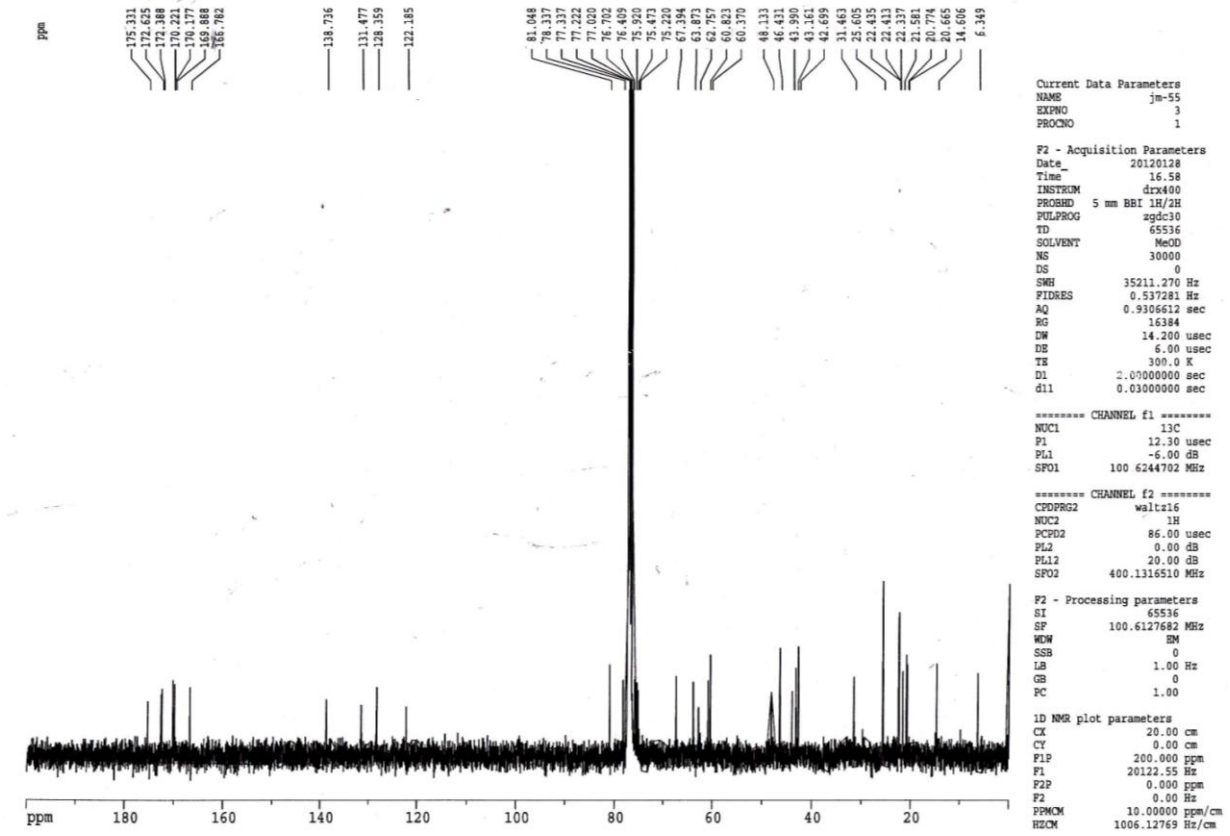


Figure S68. DEPT spectrum of compound **9** in $CDCl_3$.

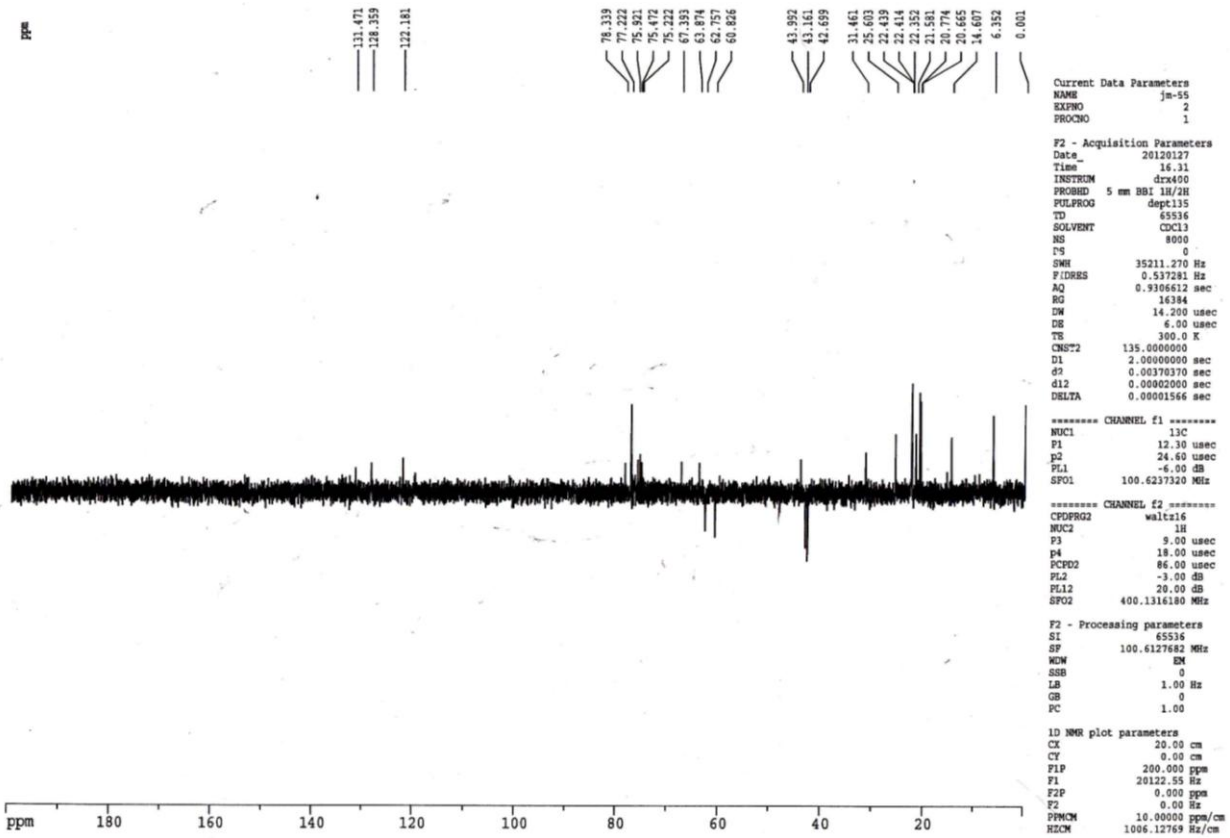


Figure S69. HSQC spectrum of compound **9** in $CDCl_3$.

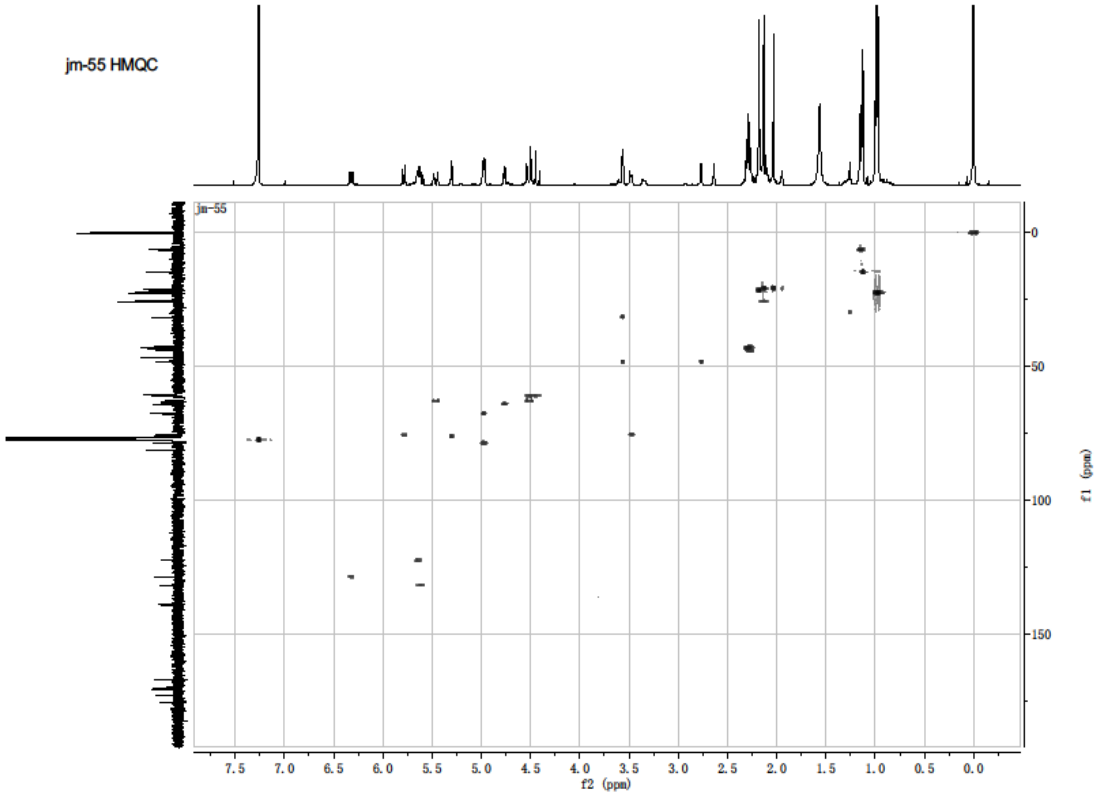


Figure S70. ^{1}H-^{1}H COSY spectrum of compound **9** in $CDCl_3$.

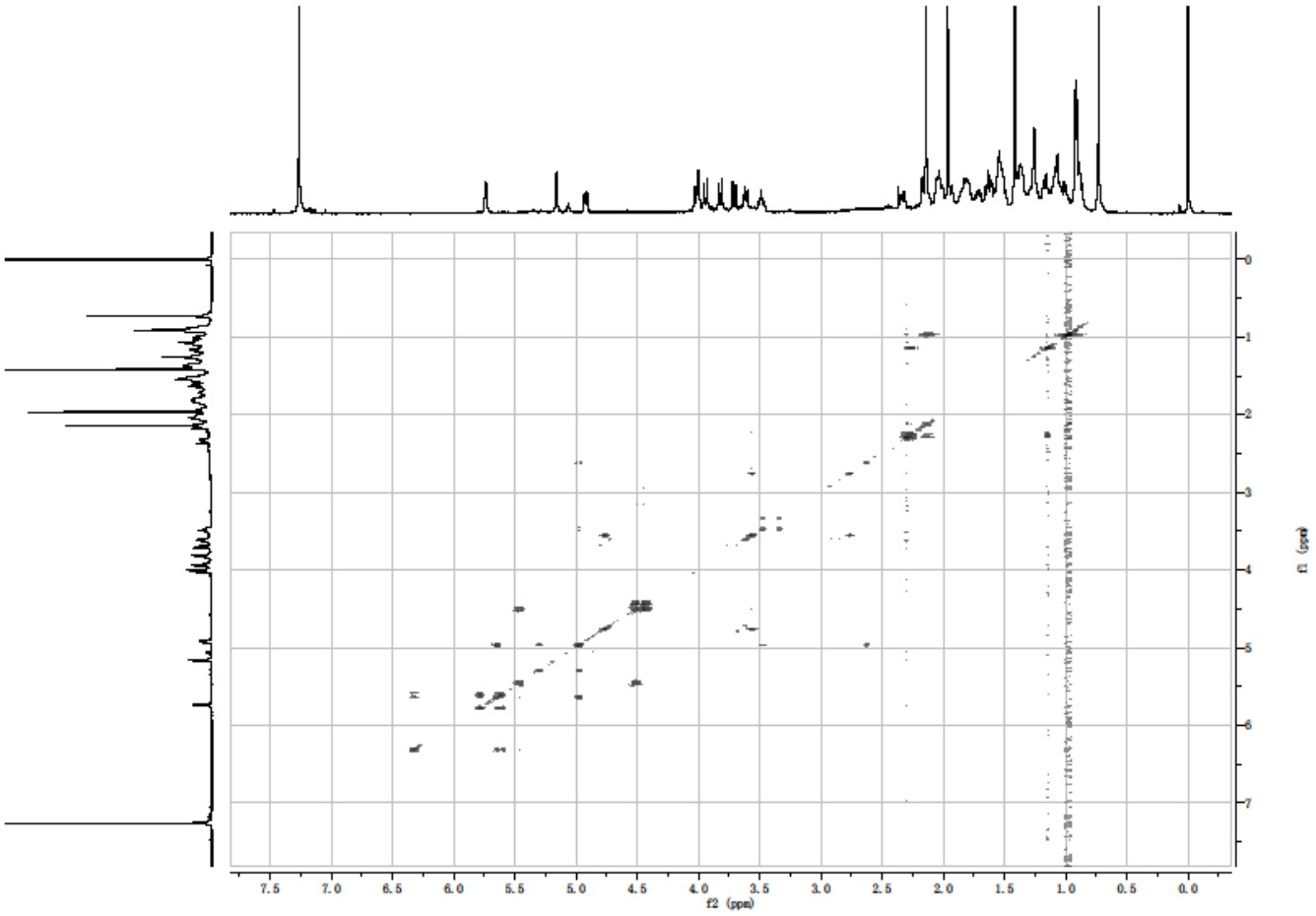


Figure S71. HMBC spectrum of compound **9** in $CDCl_3$.

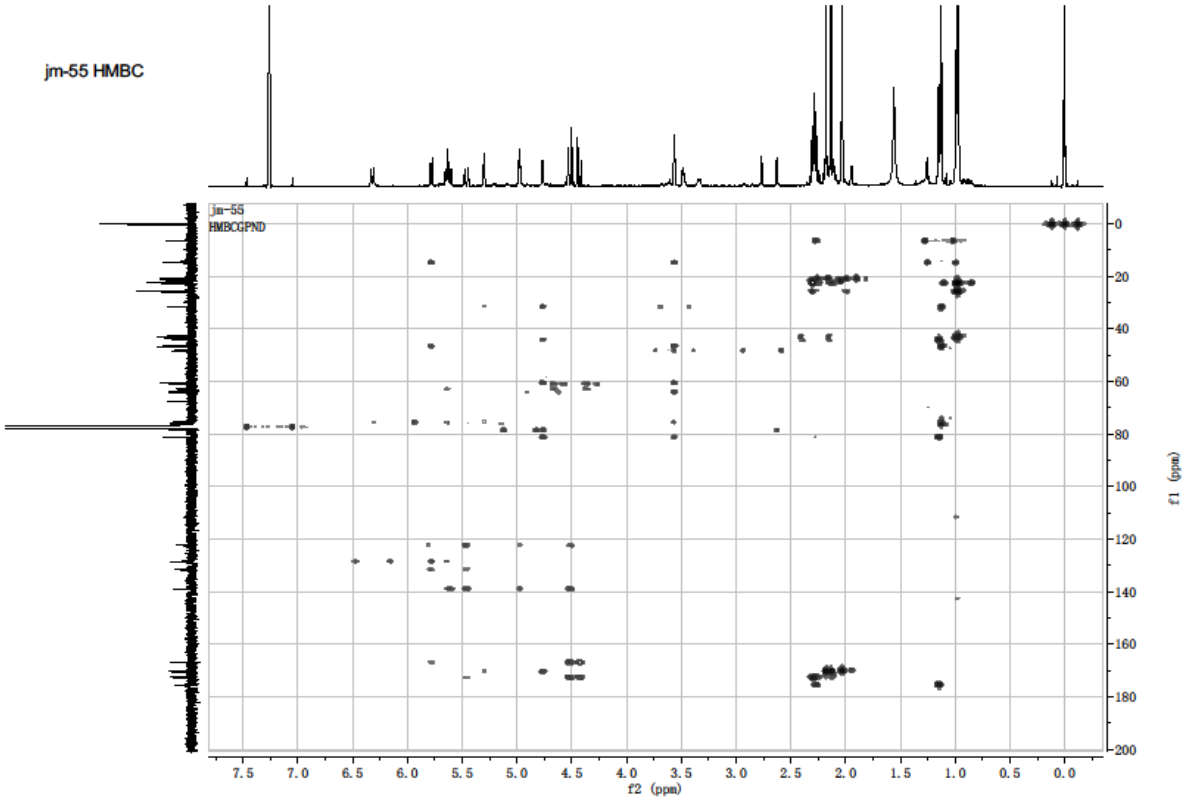


Figure S72. NOESY spectrum of compound **9** in $CDCl_3$.

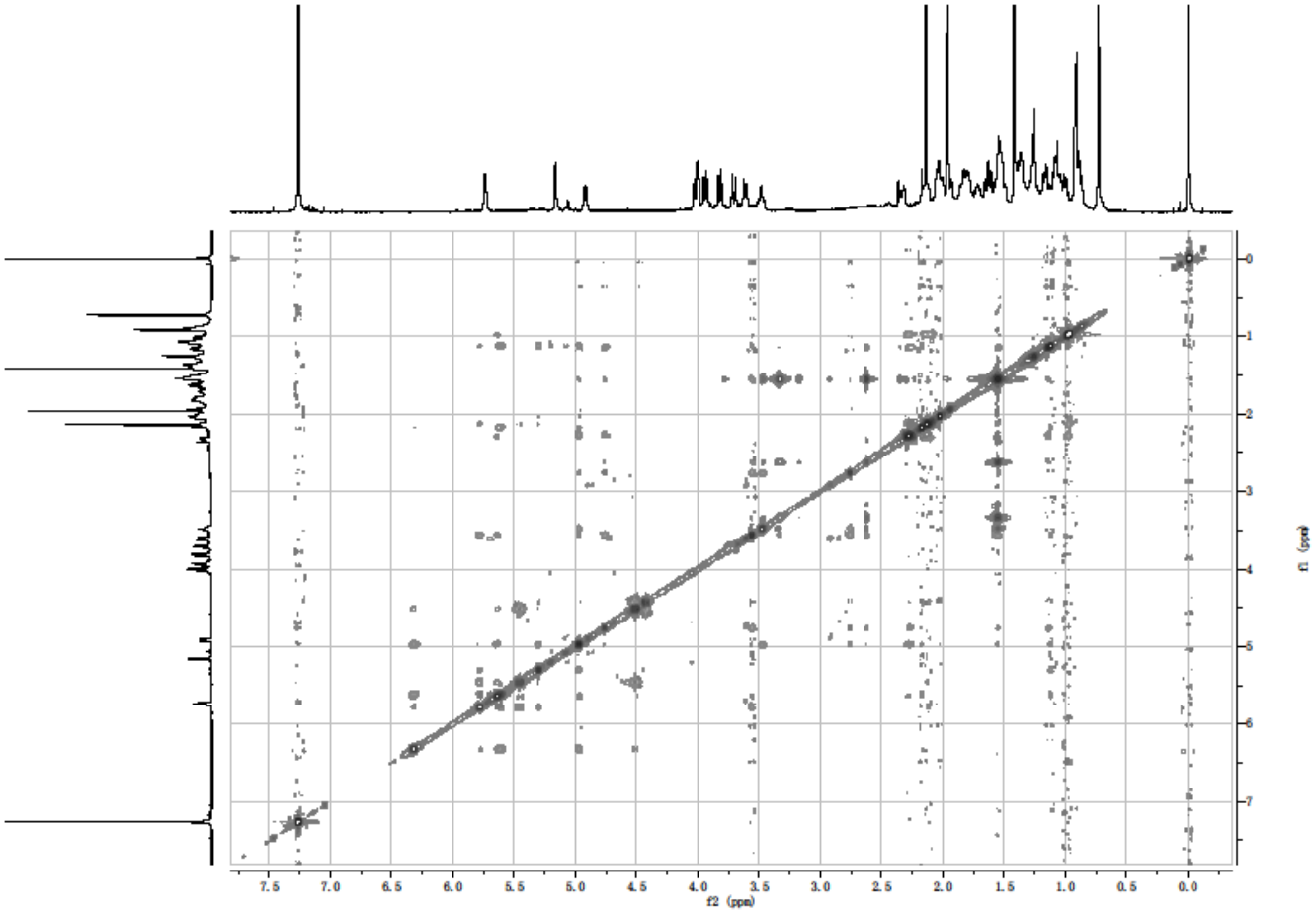


Figure S73. HR-ESIMS spectrum of the new compound **10**.

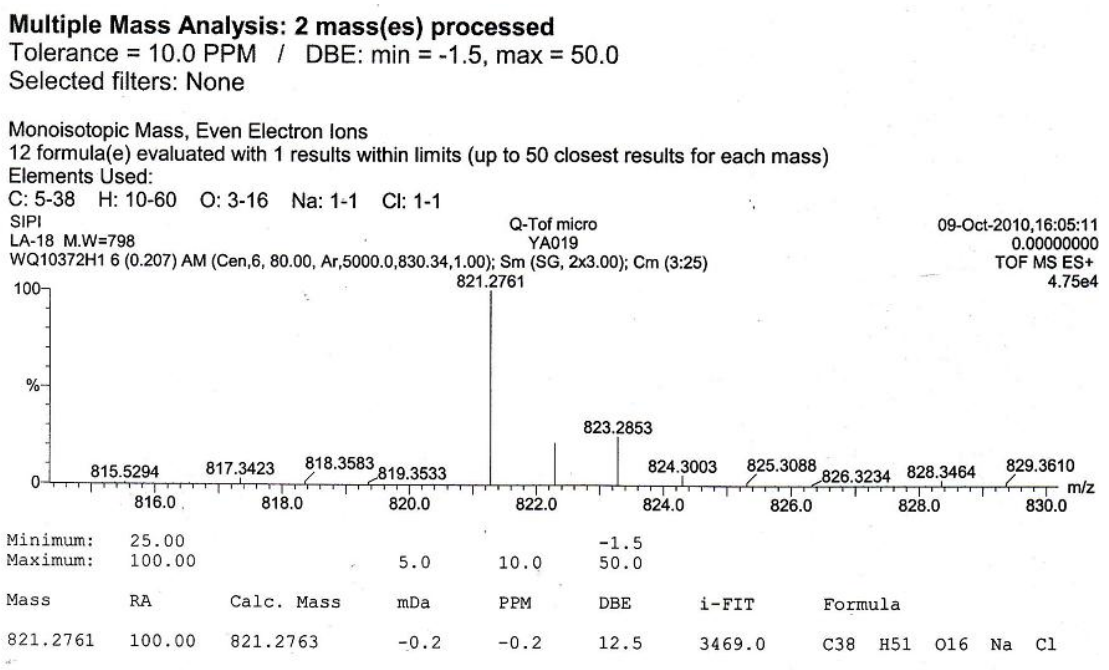


Figure S74. ^{1}H NMR spectrum of the new compound **10**.

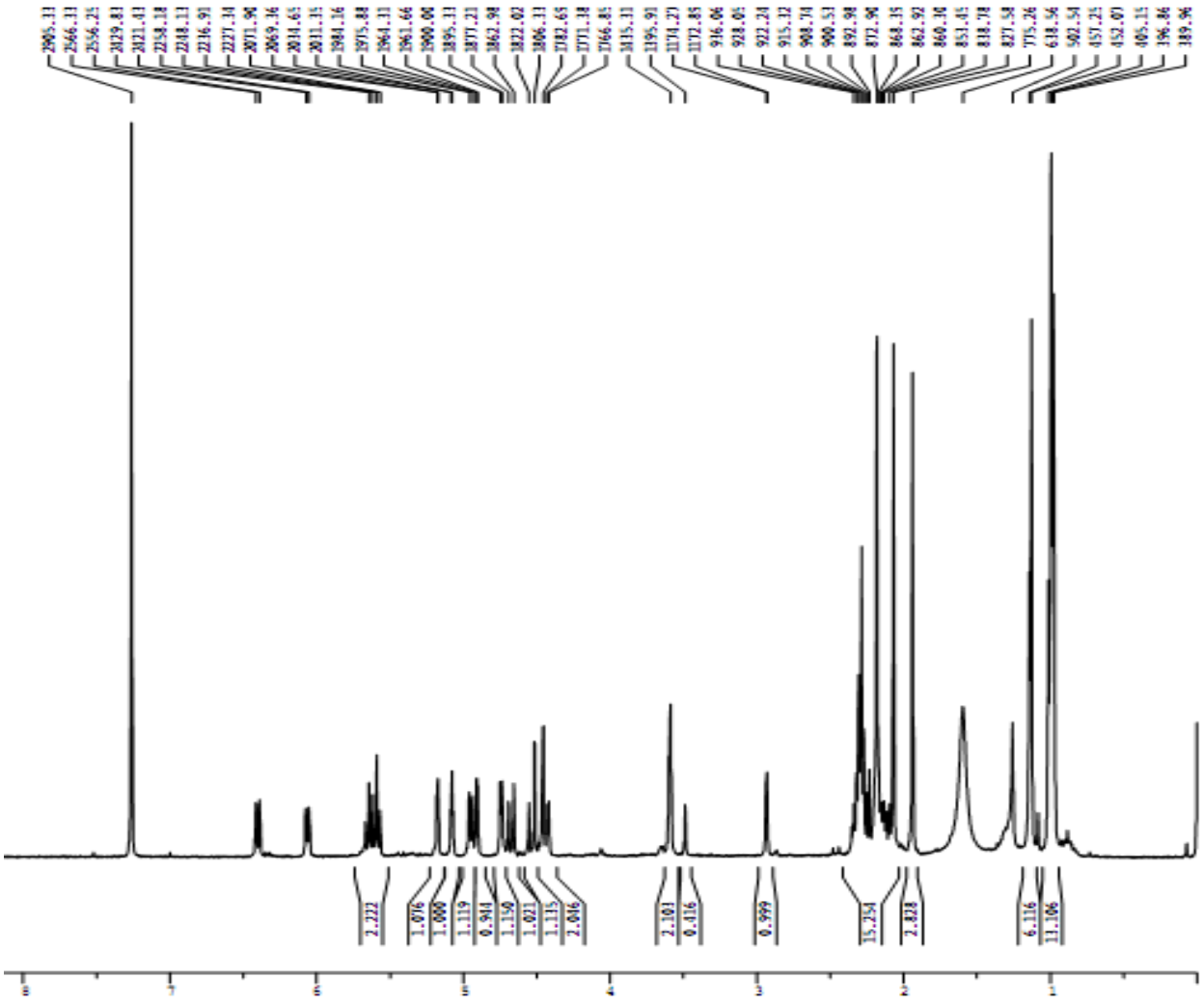


Figure S75. ^{13}C NMR spectrum of the new compound **10**.

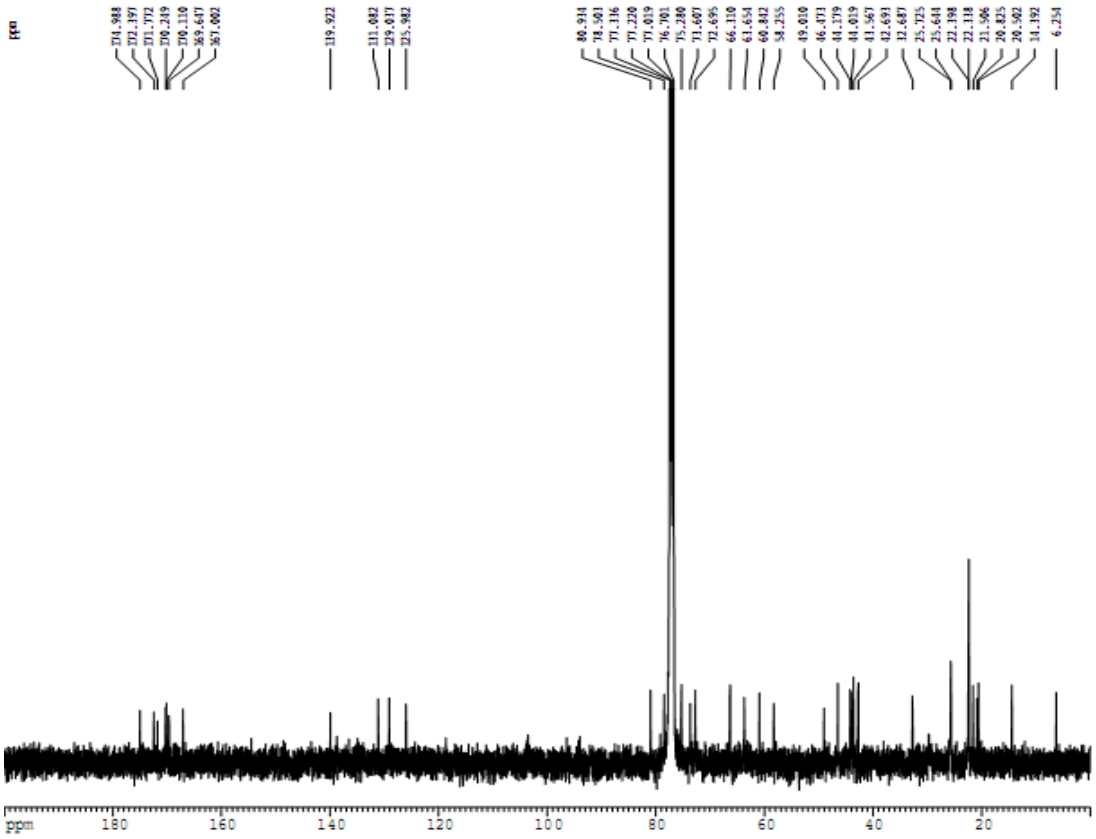


Figure S76. DEPT spectrum of the new compound **10**.

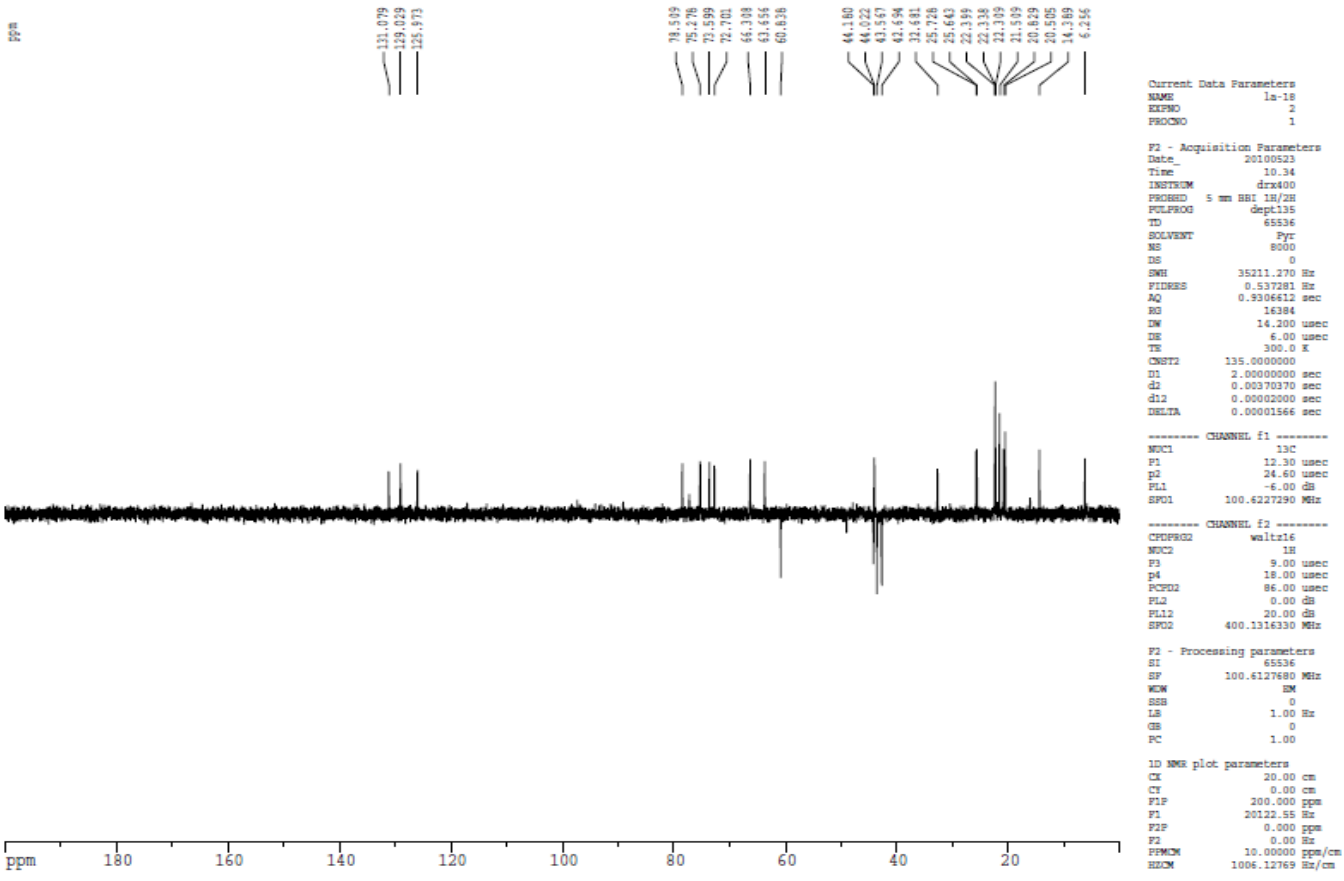


Figure S77. HSQC spectrum of the new compound **10**.

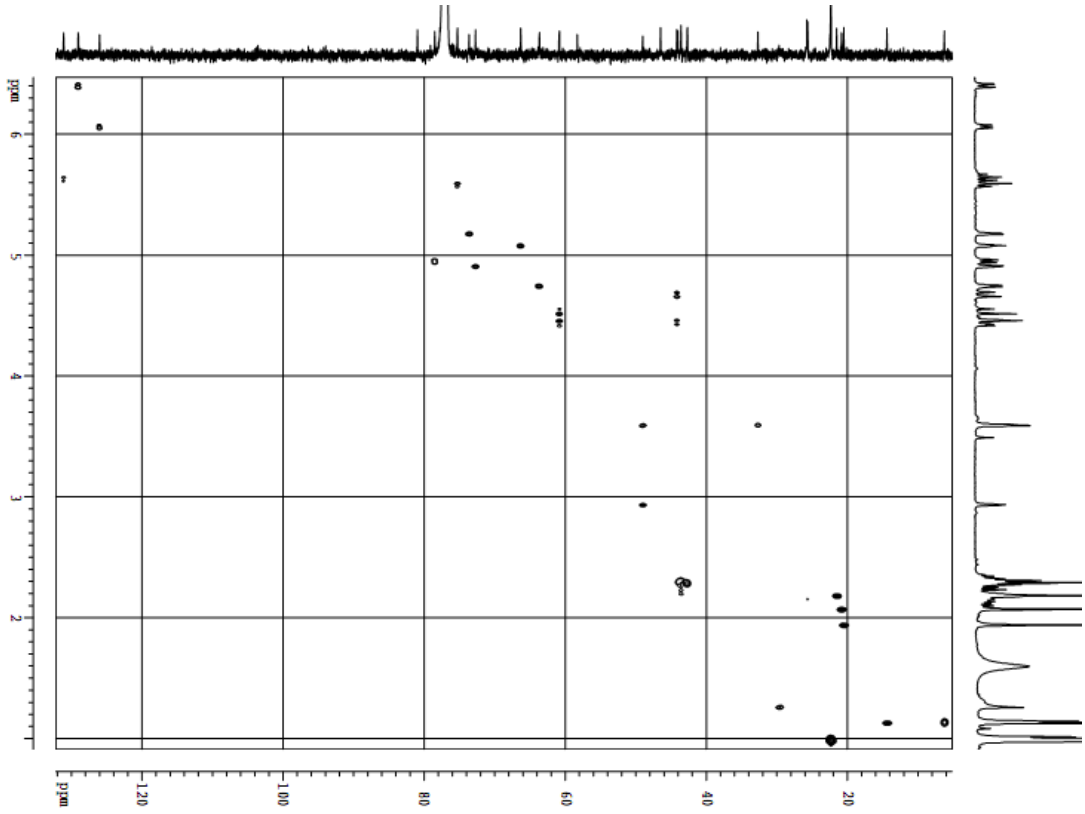


Figure S78. ^{1}H-^{1}H COSY spectrum of the new compound **10**.

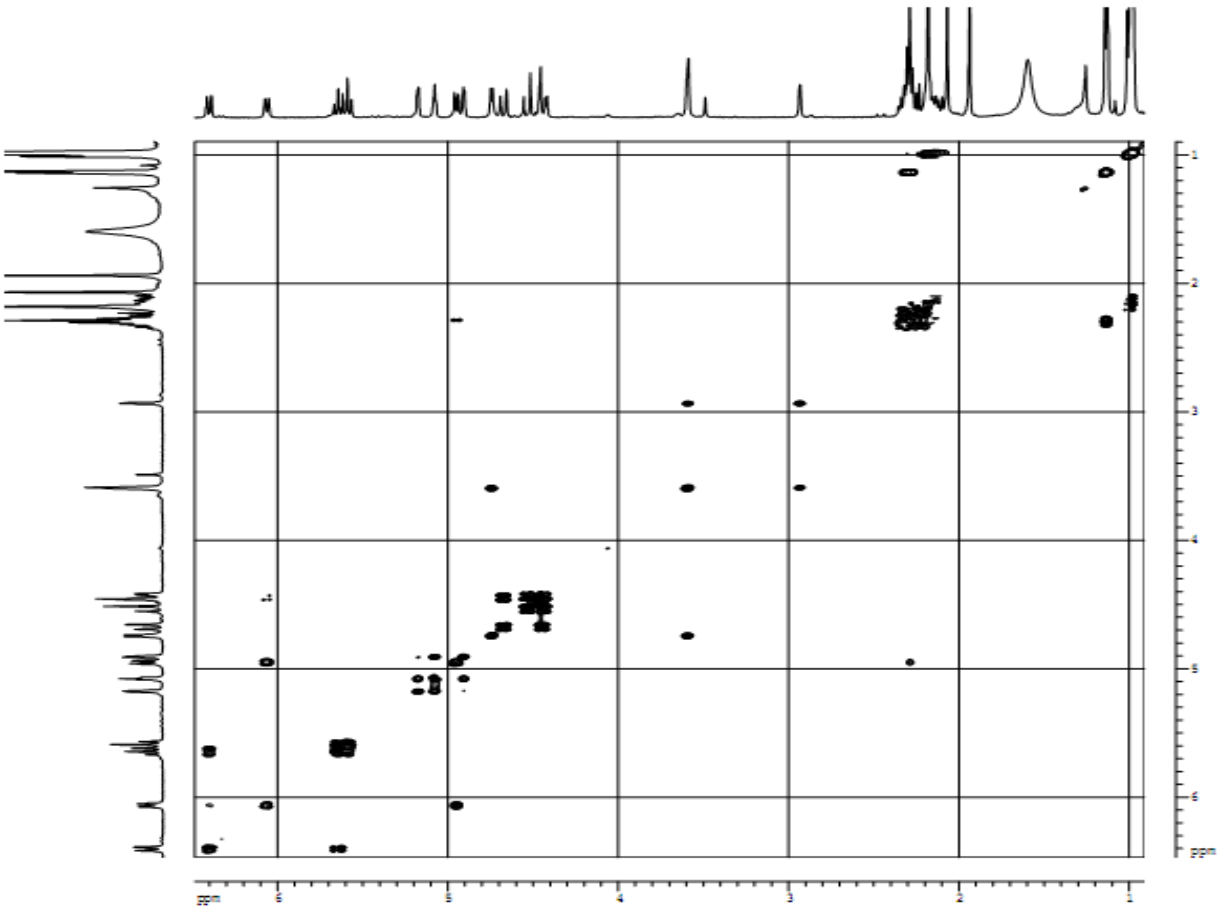


Figure S79. HMBC spectrum of the new compound **10**.

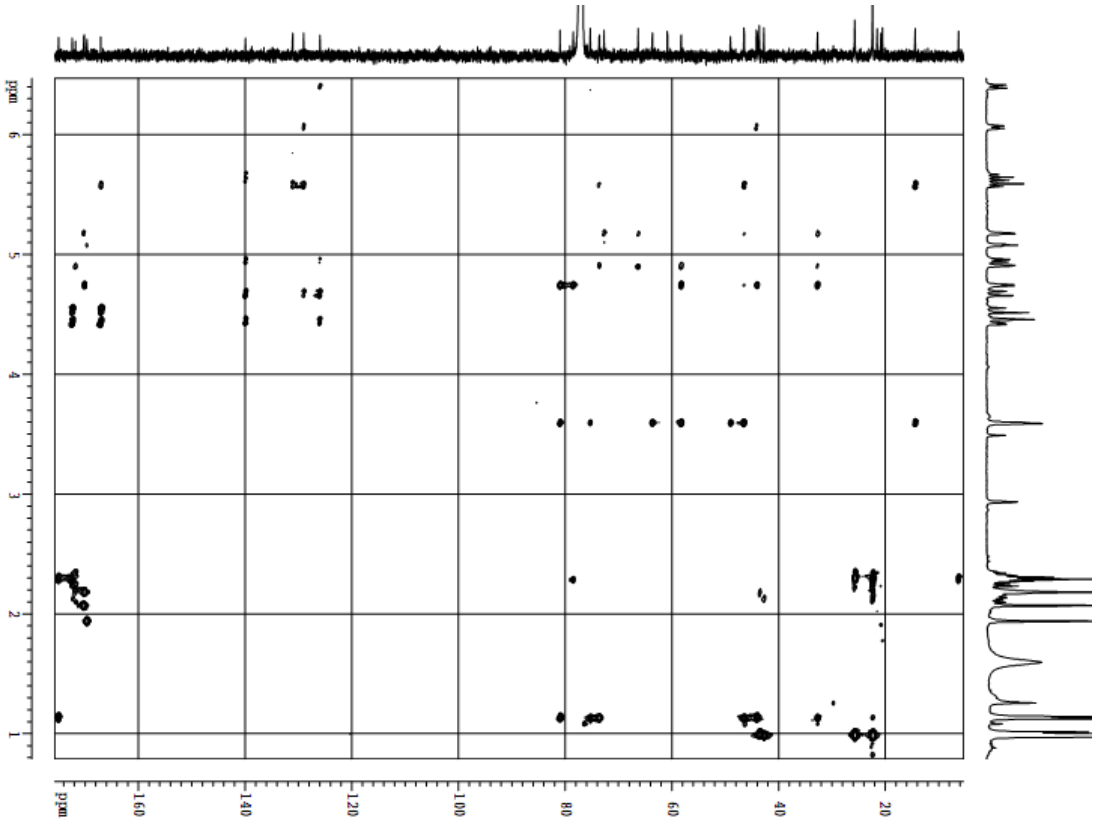


Figure S80. NOESY spectrum of the new compound **10**.

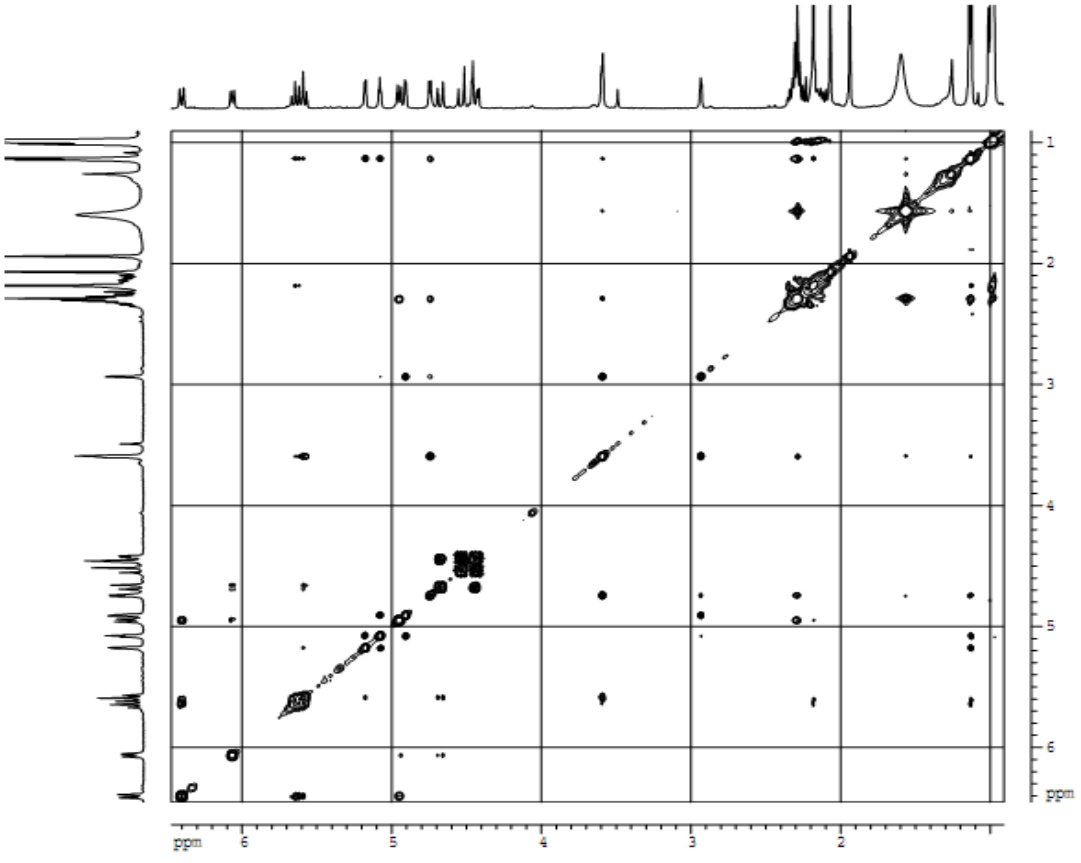


Figure S81. HRESIMS spectrum of compound **11**.

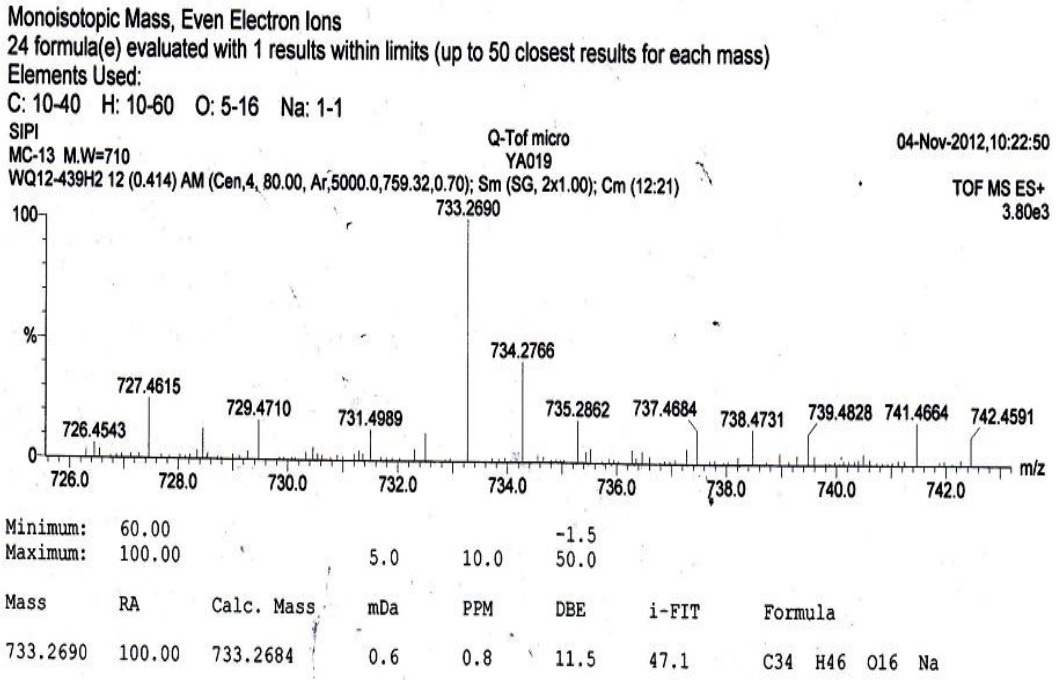


Figure S82. ^{1}H NMR spectrum of compound **11** in $CDCl_3$.

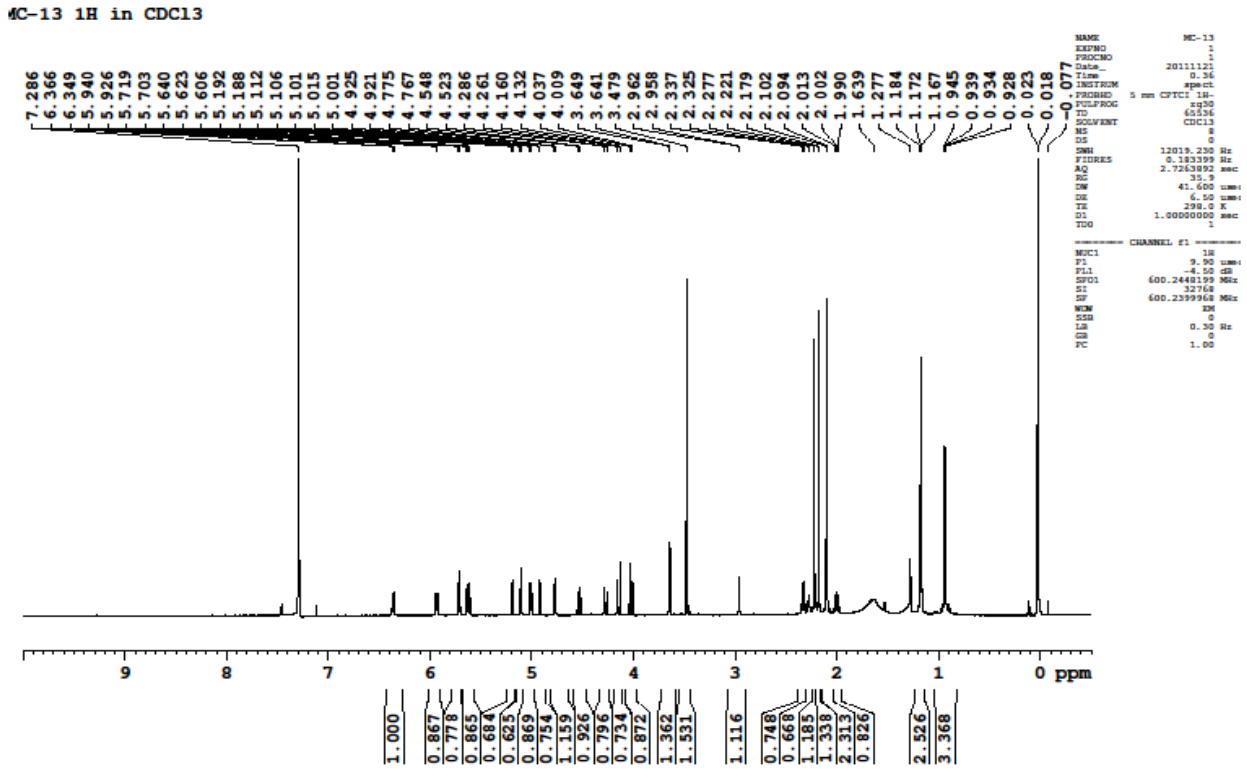


Figure S83. ^{13}C NMR spectrum of compound **11** in $CDCl_3$.

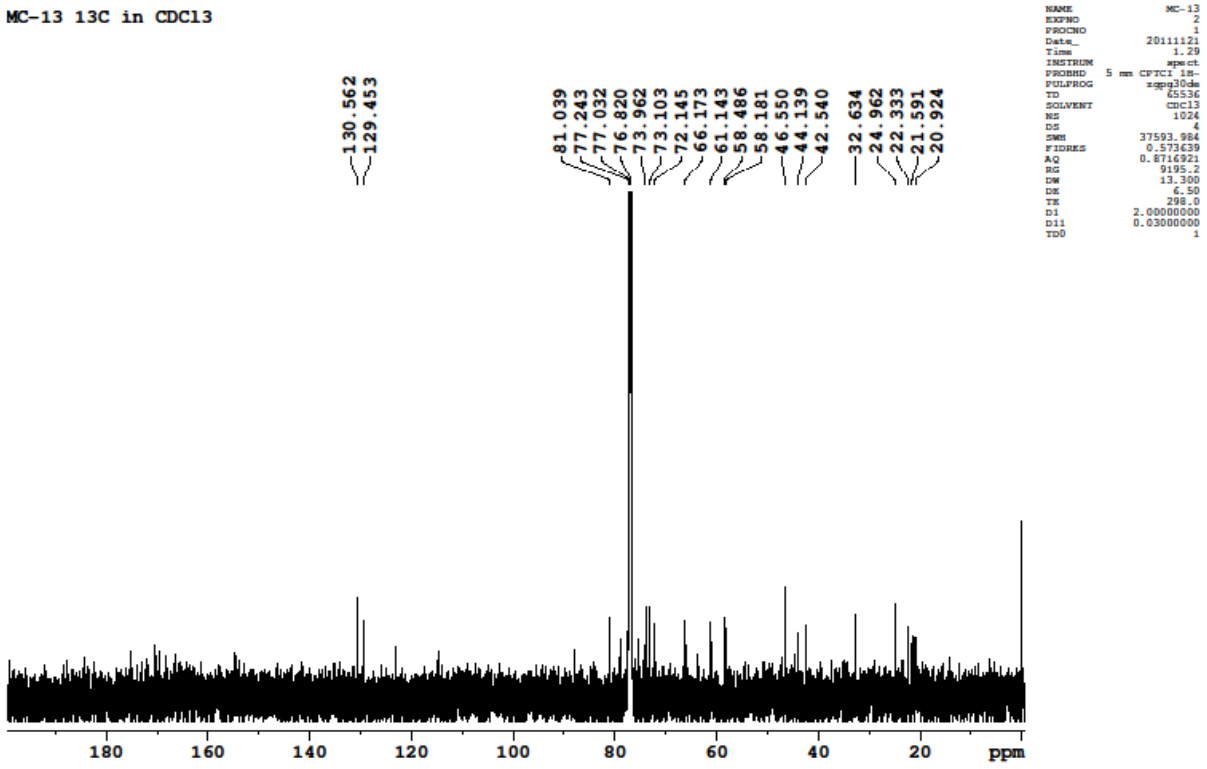
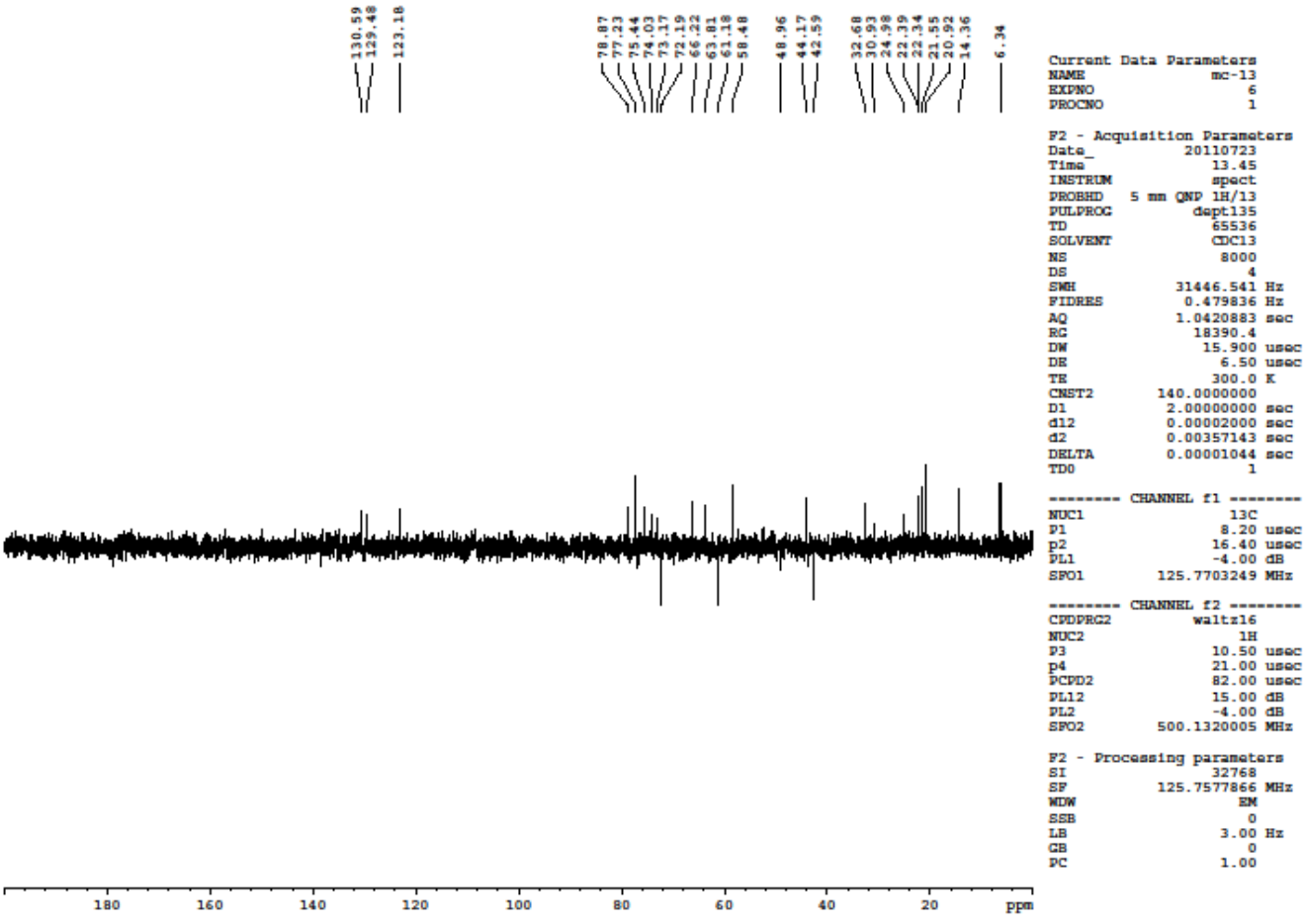


Figure S84. DEPT spectrum of compound **11** in $CDCl_3$.

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PROCNO                    1

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FIDRES            0.479836 Hz
AQ                1.0420883 sec
RG                  18390.4
DW                   15.900 usec
DE                    6.50 usec
TE                   300.0 K
CNST2            140.0000000
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d12                0.00002000 sec
d2                 0.00357143 sec
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TD0                       1

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P1                     8.20 usec
p2                    16.40 usec
PL1                   -4.00 dB
SFO1            125.7703249 MHz

======== CHANNEL f2 ========
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NUC2                    1H
P3                    10.50 usec
p4                    21.00 usec
PCPD2                 82.00 usec
PL12                  15.00 dB
PL2                   -4.00 dB
SFO2            500.1320005 MHz

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Figure S85. HSQC spectrum of compound **11** in $CDCl_3$.

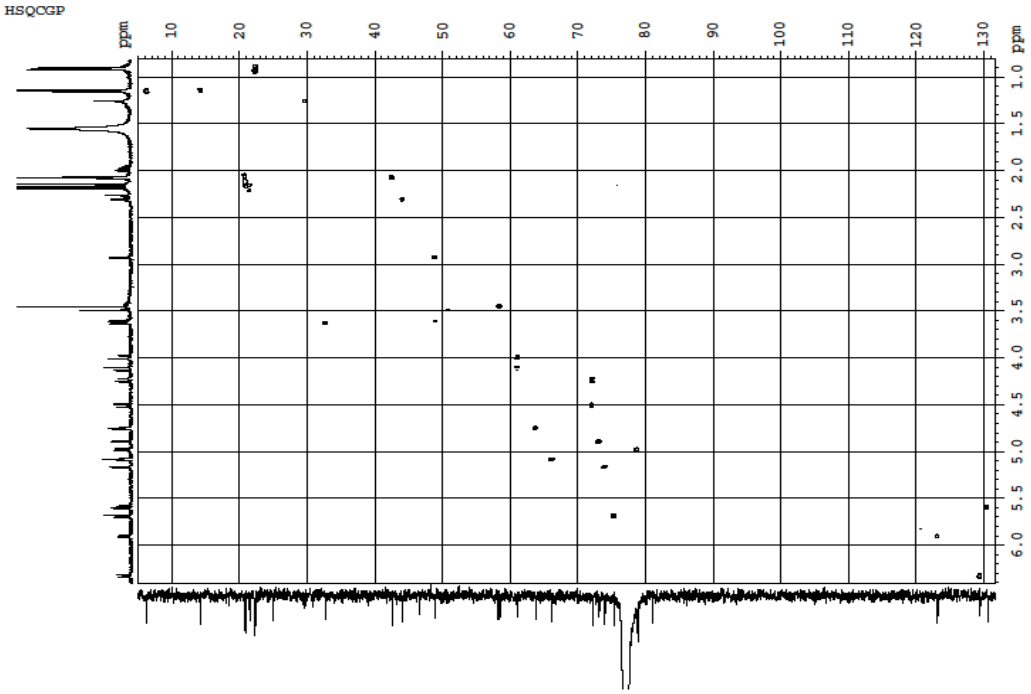

Figure S86. ^{1}H-^{1}H COSY spectrum of compound **11** in $CDCl_3$.

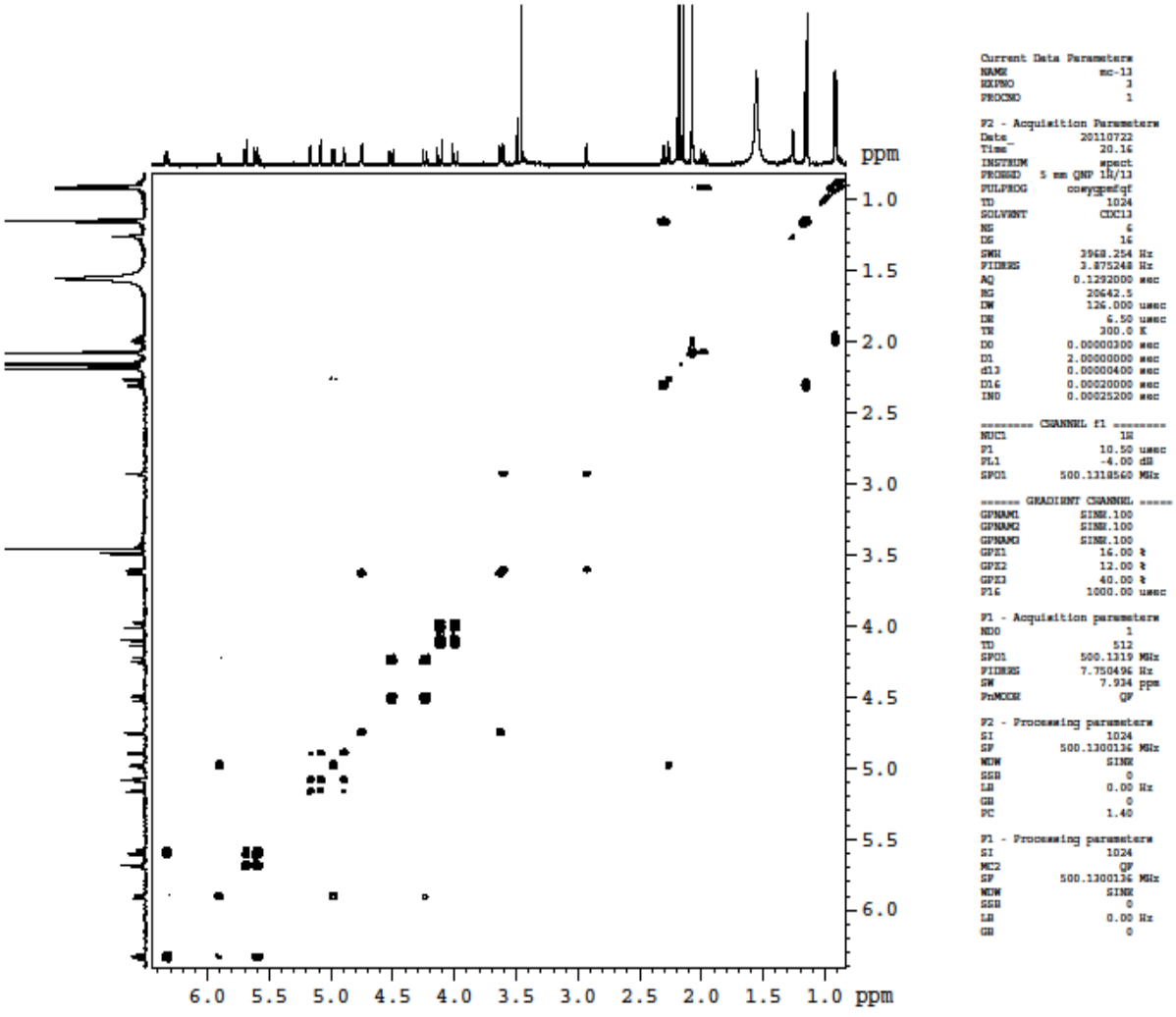

Figure S87. HMBC spectrum of compound **11** in $CDCl_3$.

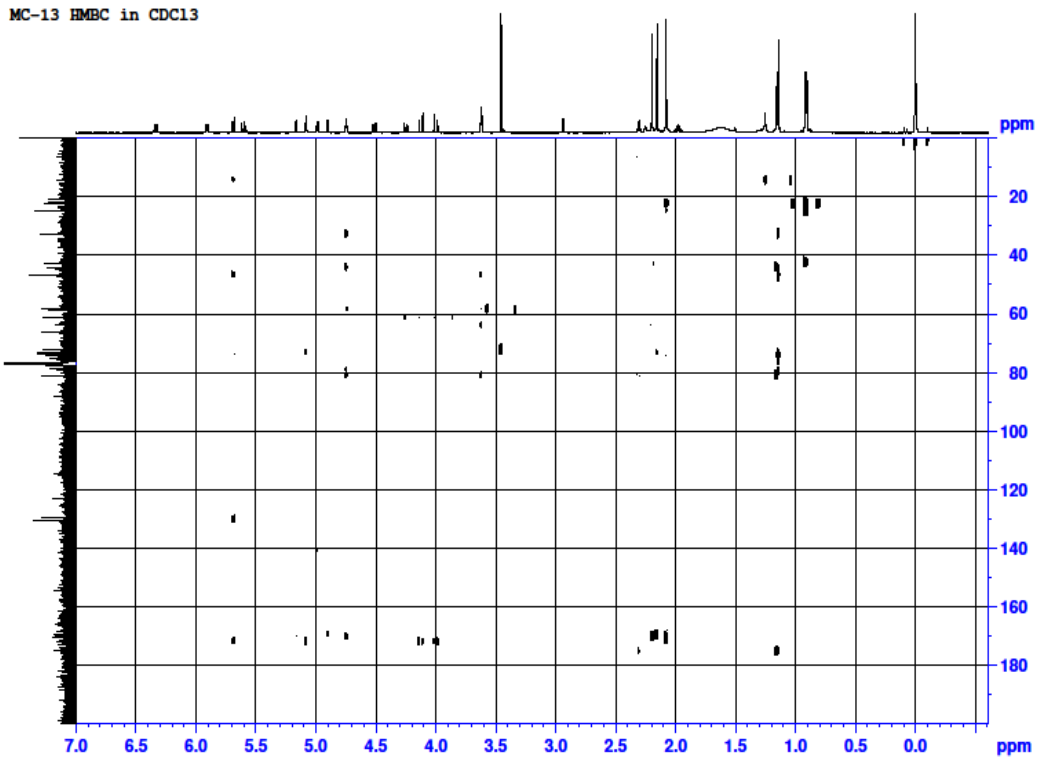

Figure S88. NOESY spectrum of compound **11** in $CDCl_3$.

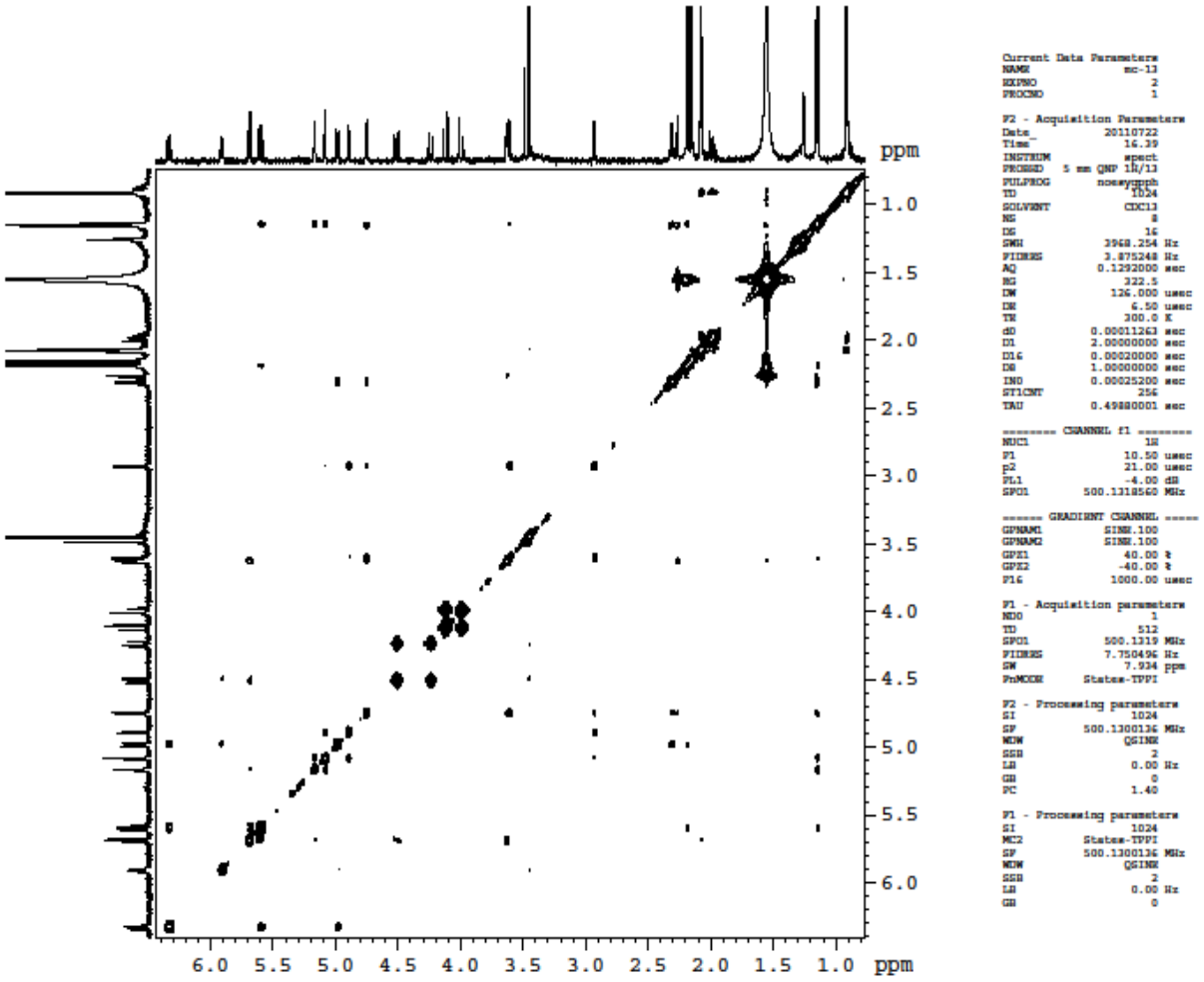

Figure S89. HR-ESIMS spectrum of the new compound **12**.

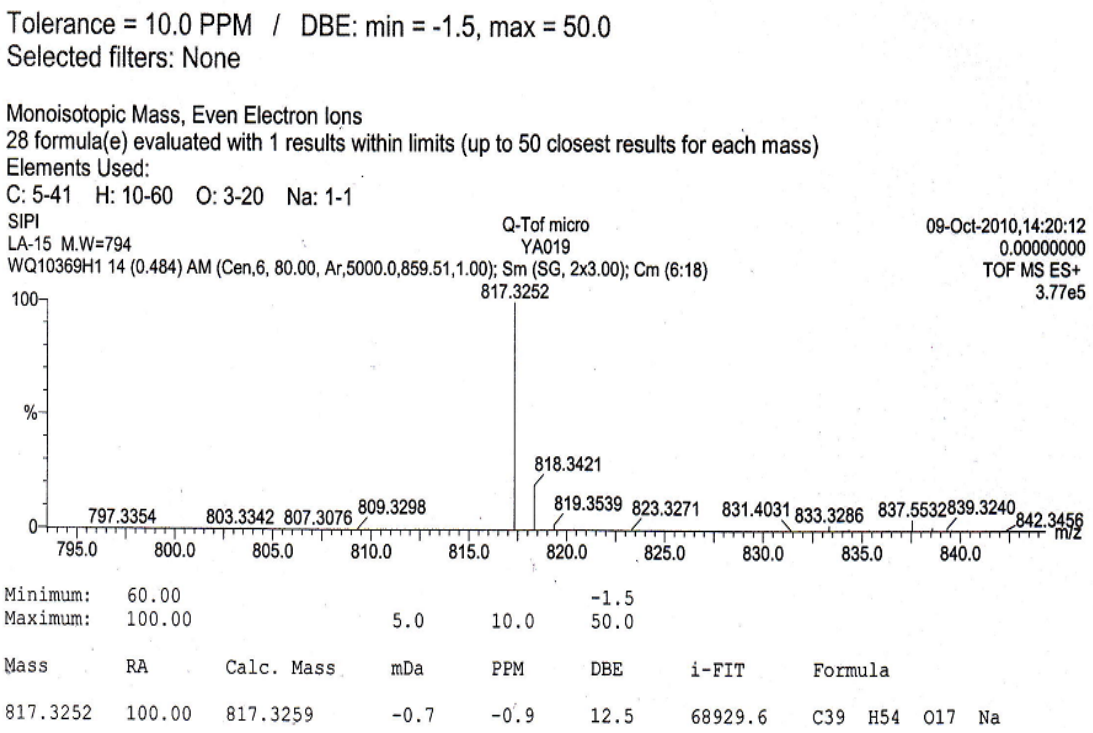

Figure S90. ^{1}H MNR (400 MHz, $CDCl_3$) spectrum of the new compound **12**.

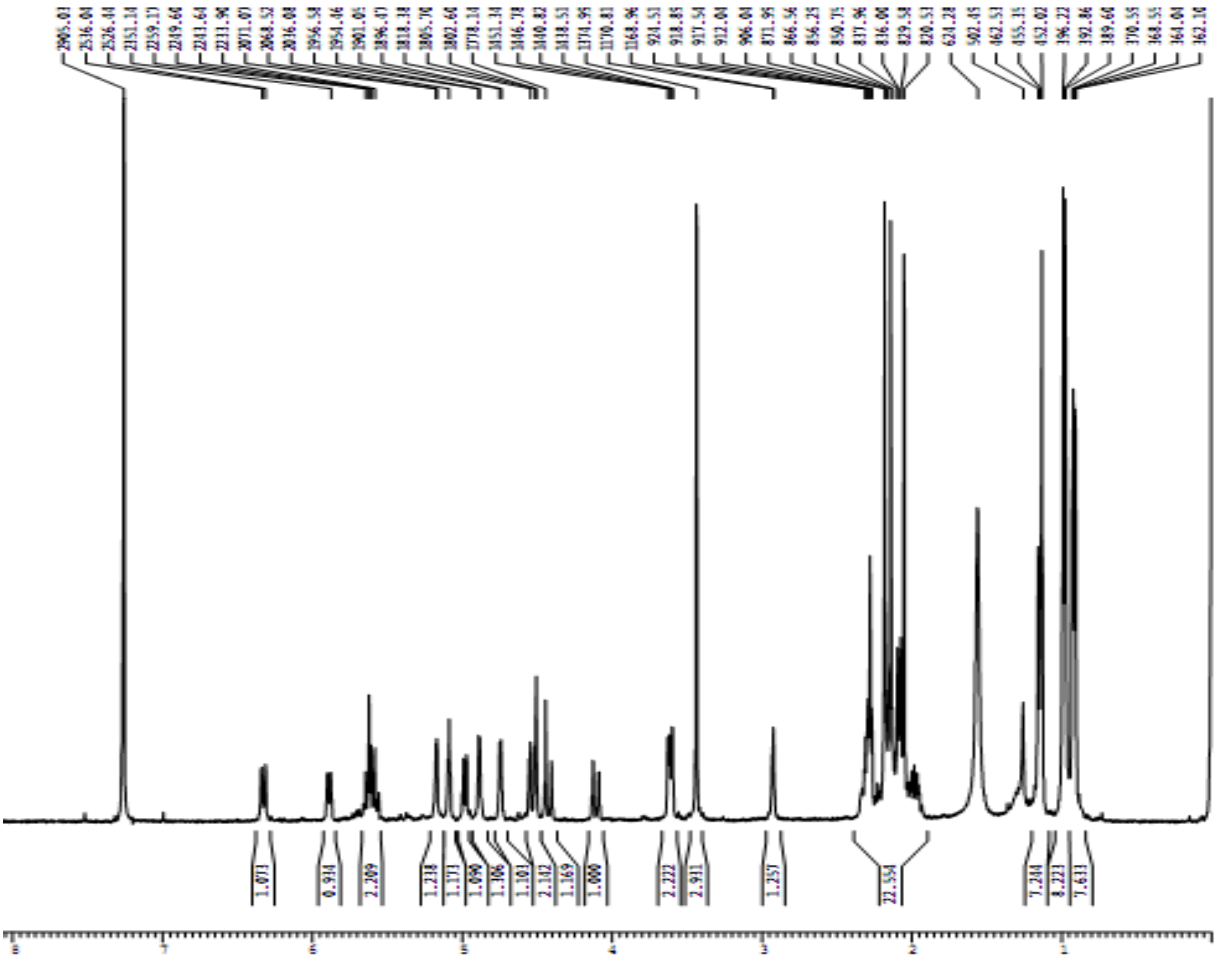

Figure S91. ^{13}C MNR (100 MHz, $CDCl_3$) spectrum of the new compound **12**.

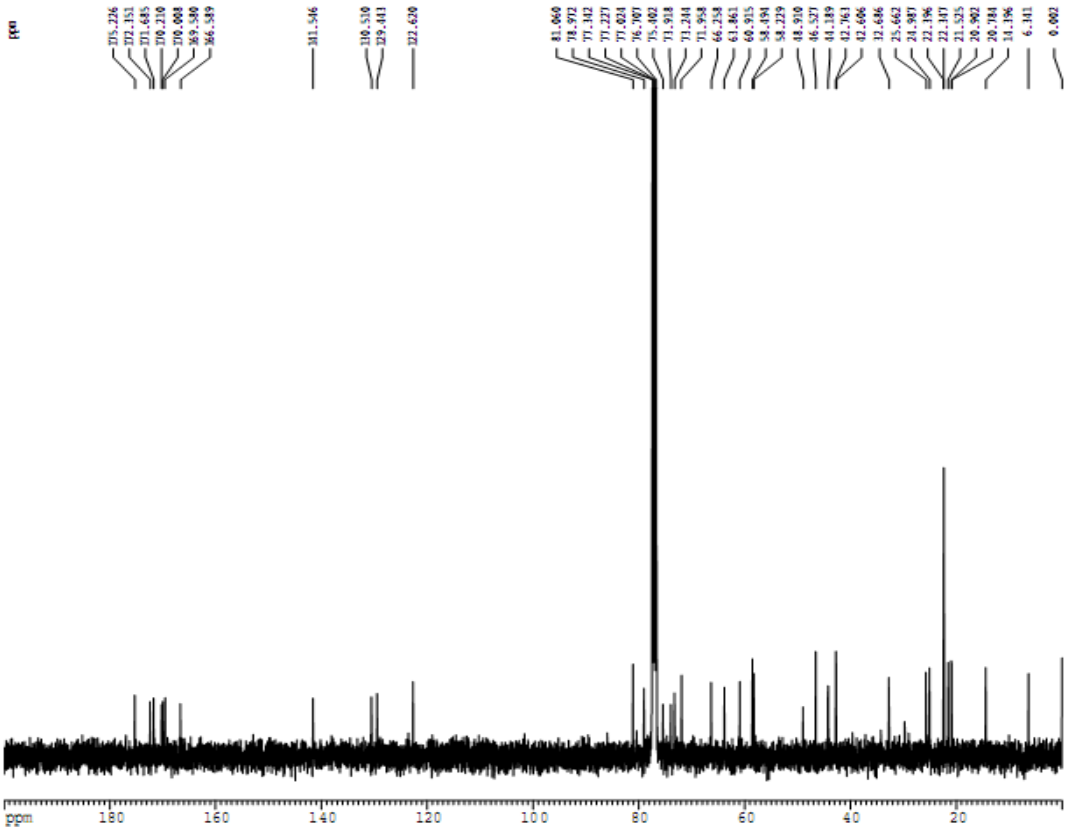

Figure S92. DEPT spectrum of the new compound **12**.

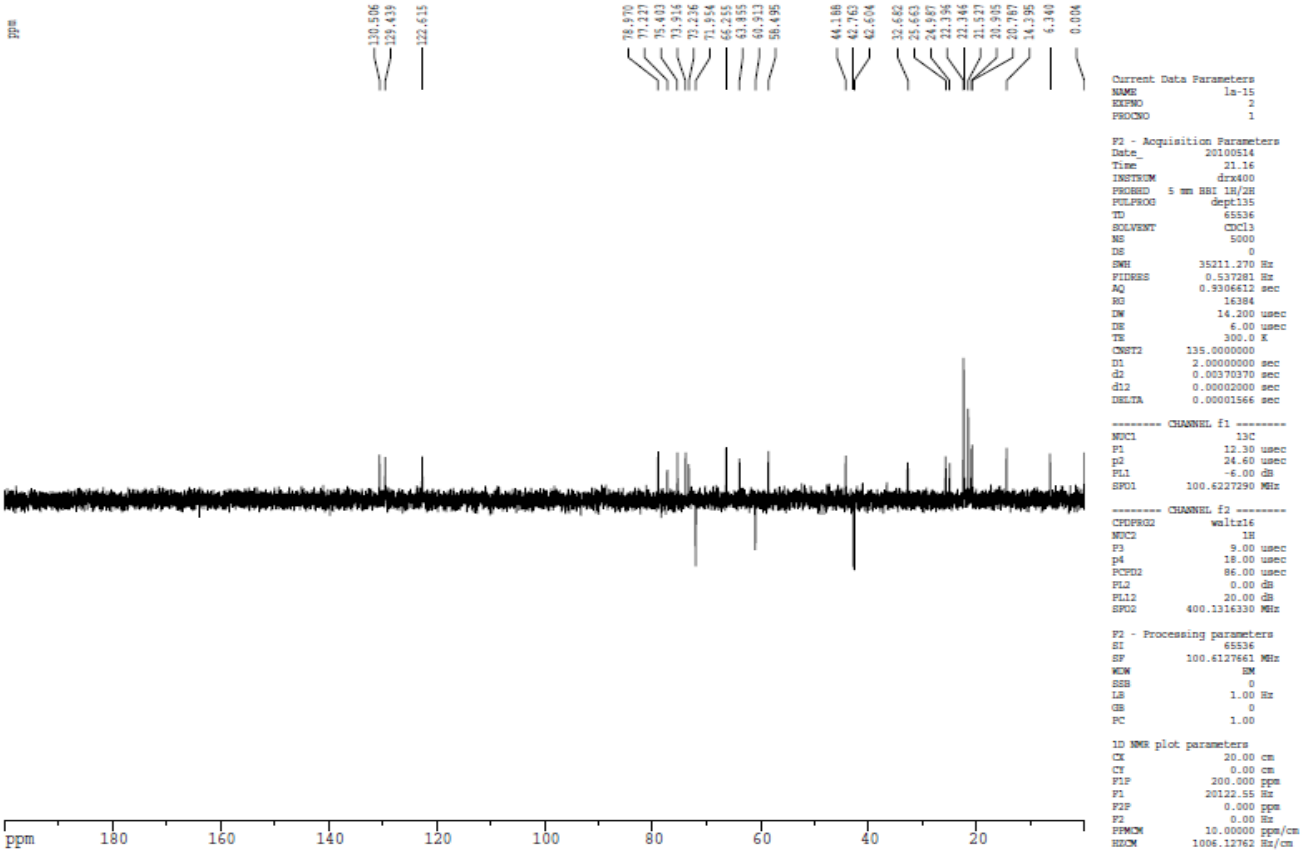

Figure S93. HSQC spectrum of the new compound **12**.

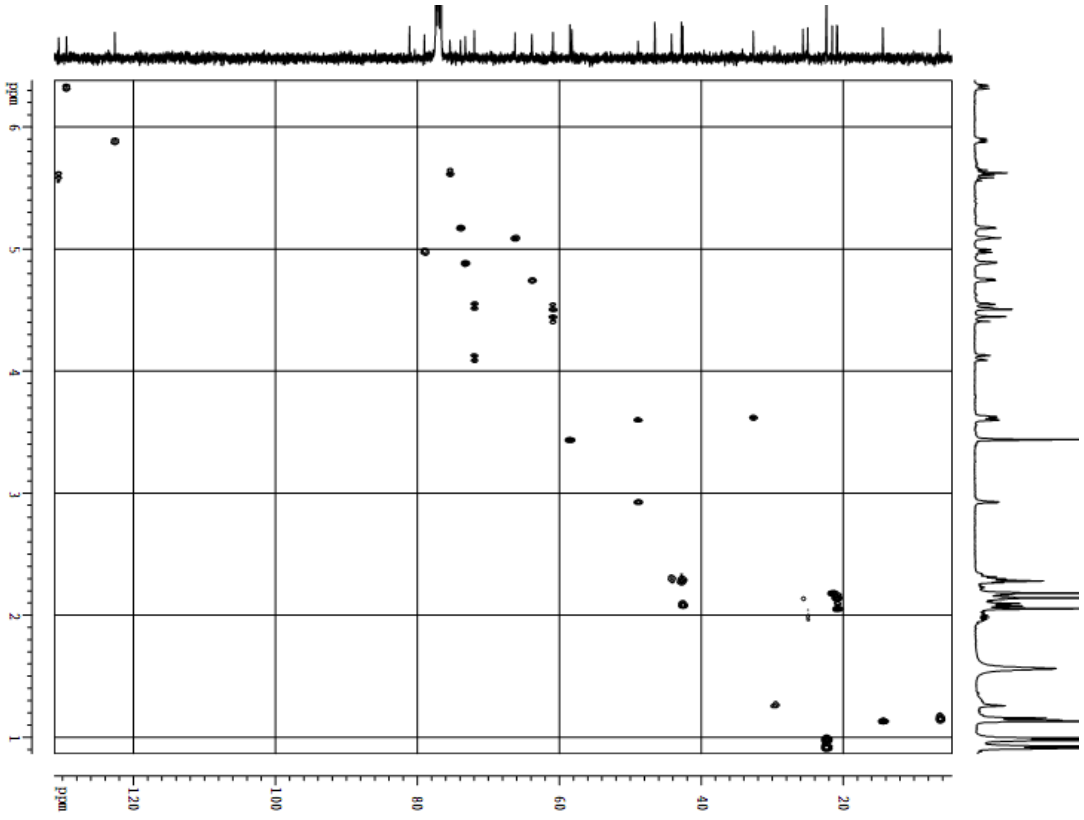

Figure S94. ^{1}H-^{1}H COSY spectrum of the new compound **12**.

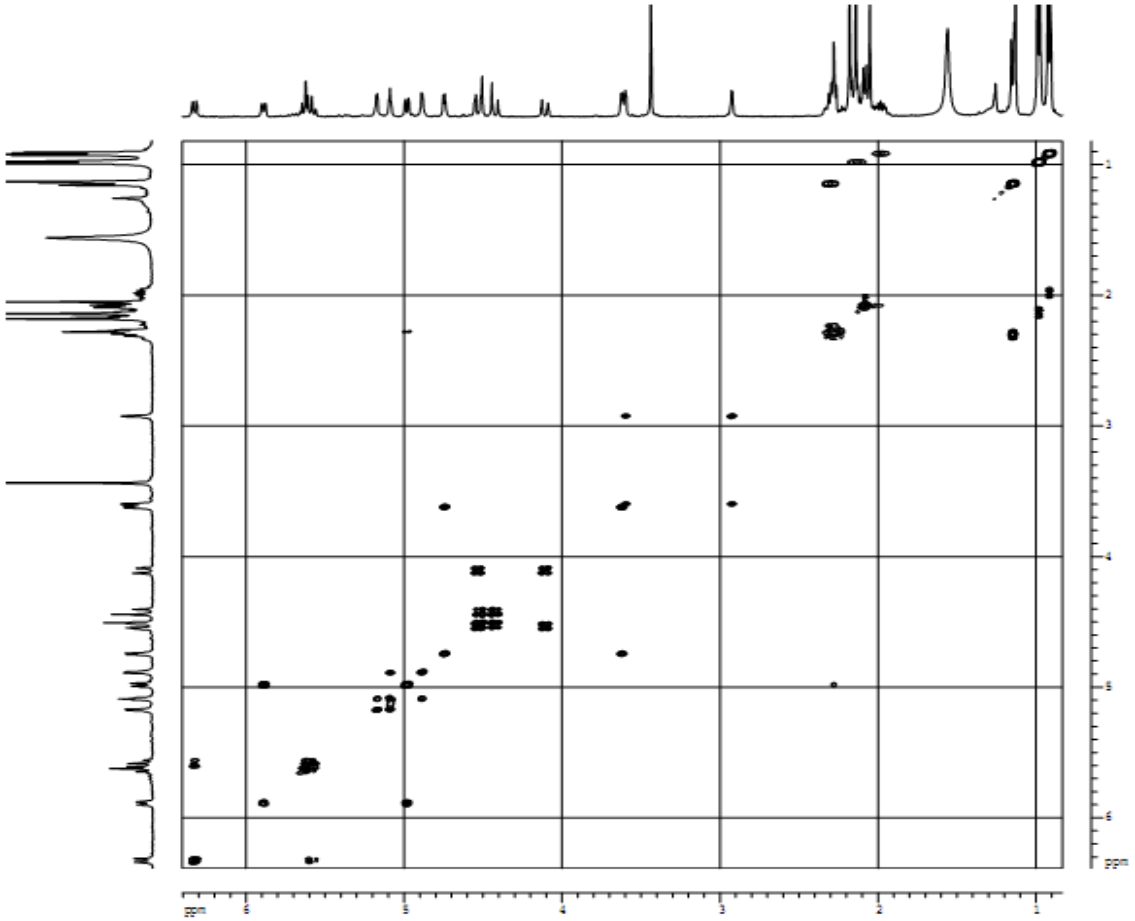

Figure S95. HMBC spectrum of the new compound **12**.

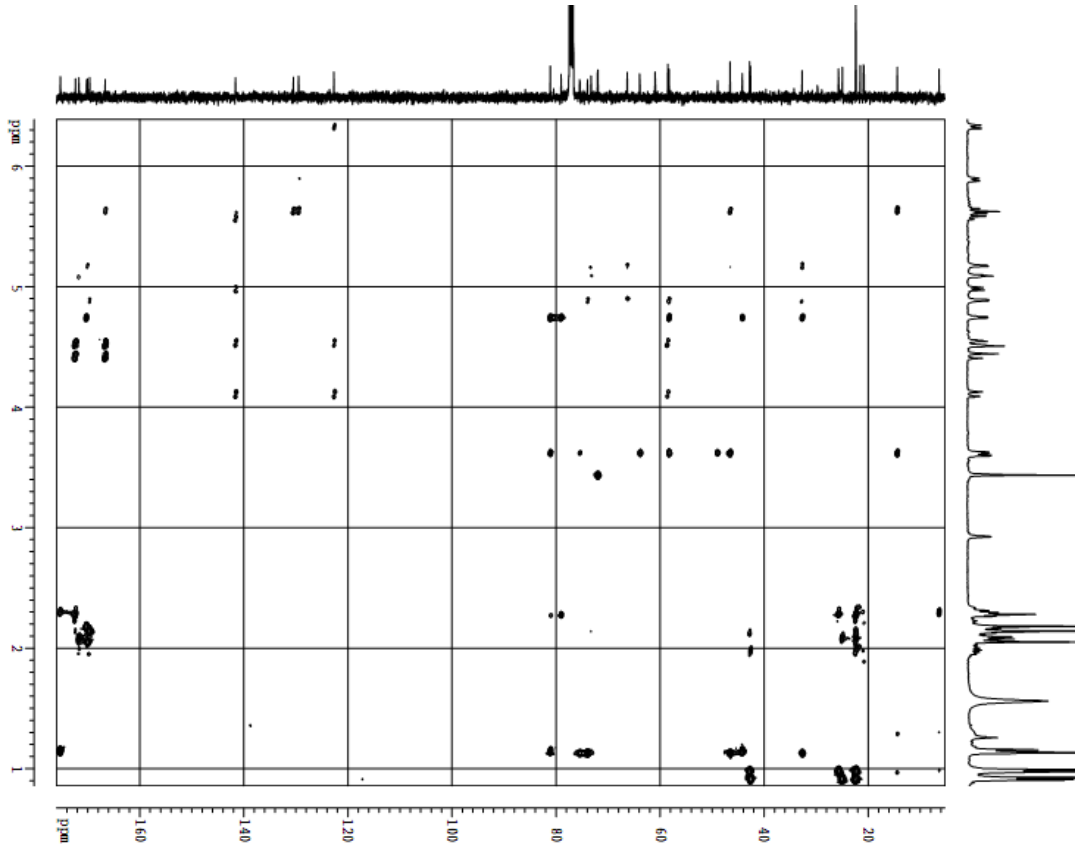

Figure S96. NOESY spectrum of the new compound **12**.

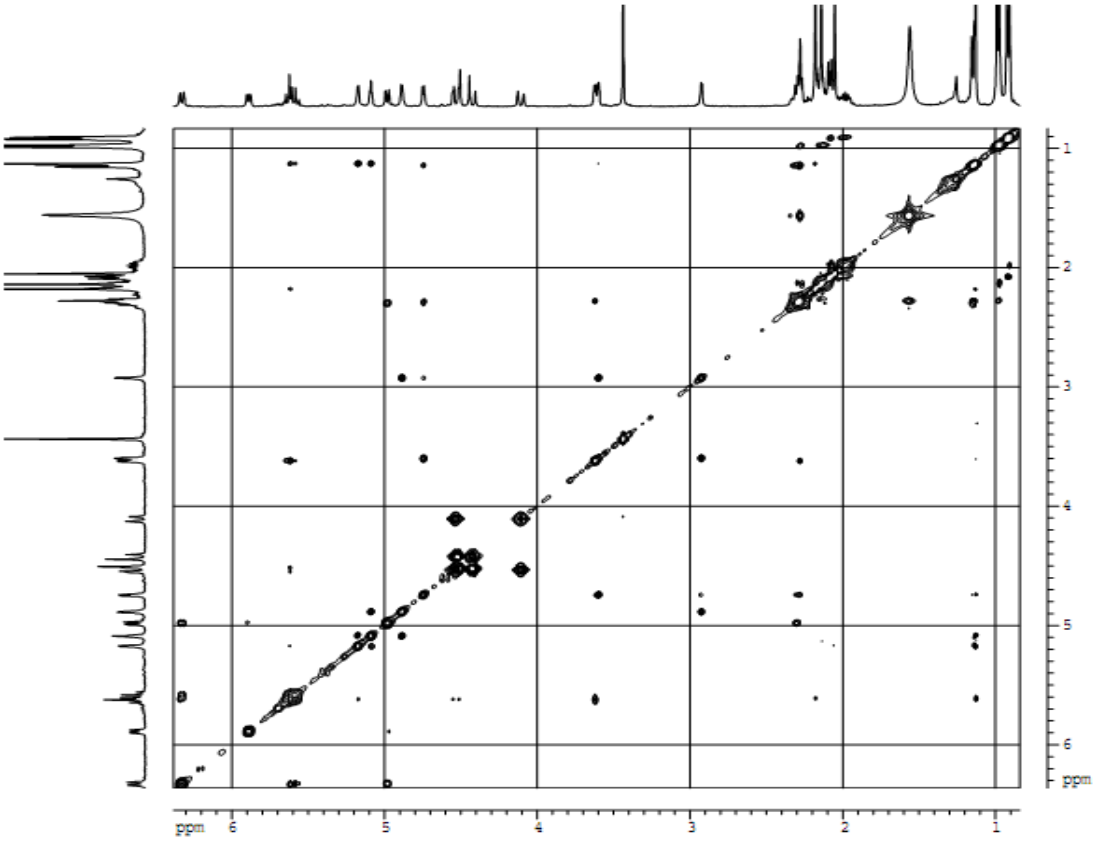

Figure S97. HRESI spectrum of compound **13**.

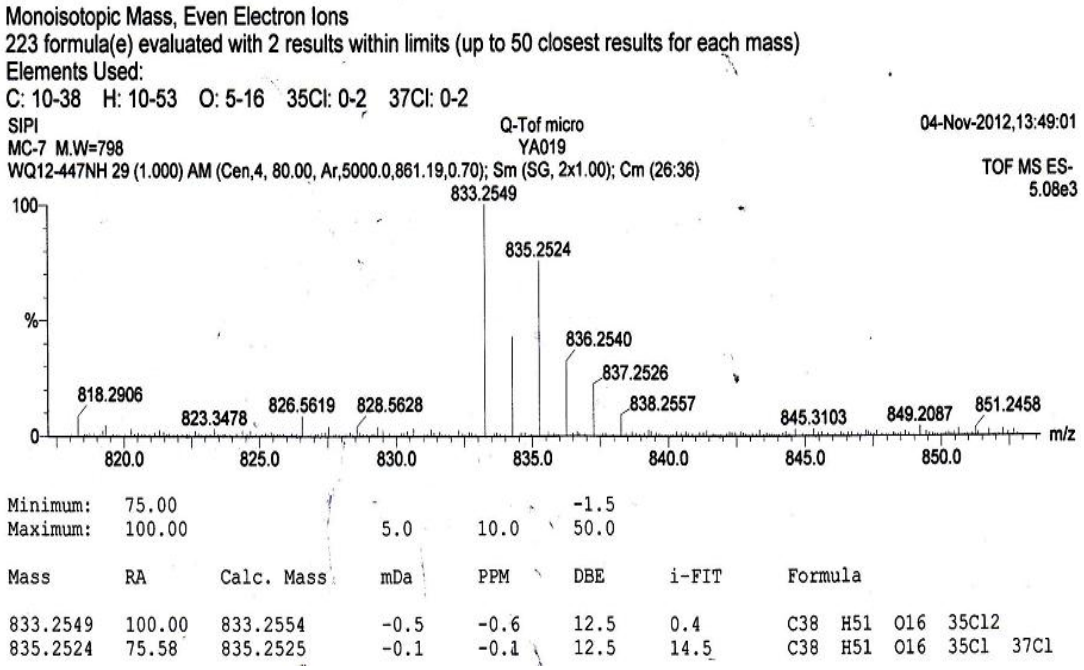

Figure S98. ^{1}H NMR spectrum of compound **13** in $CDCl_3$.

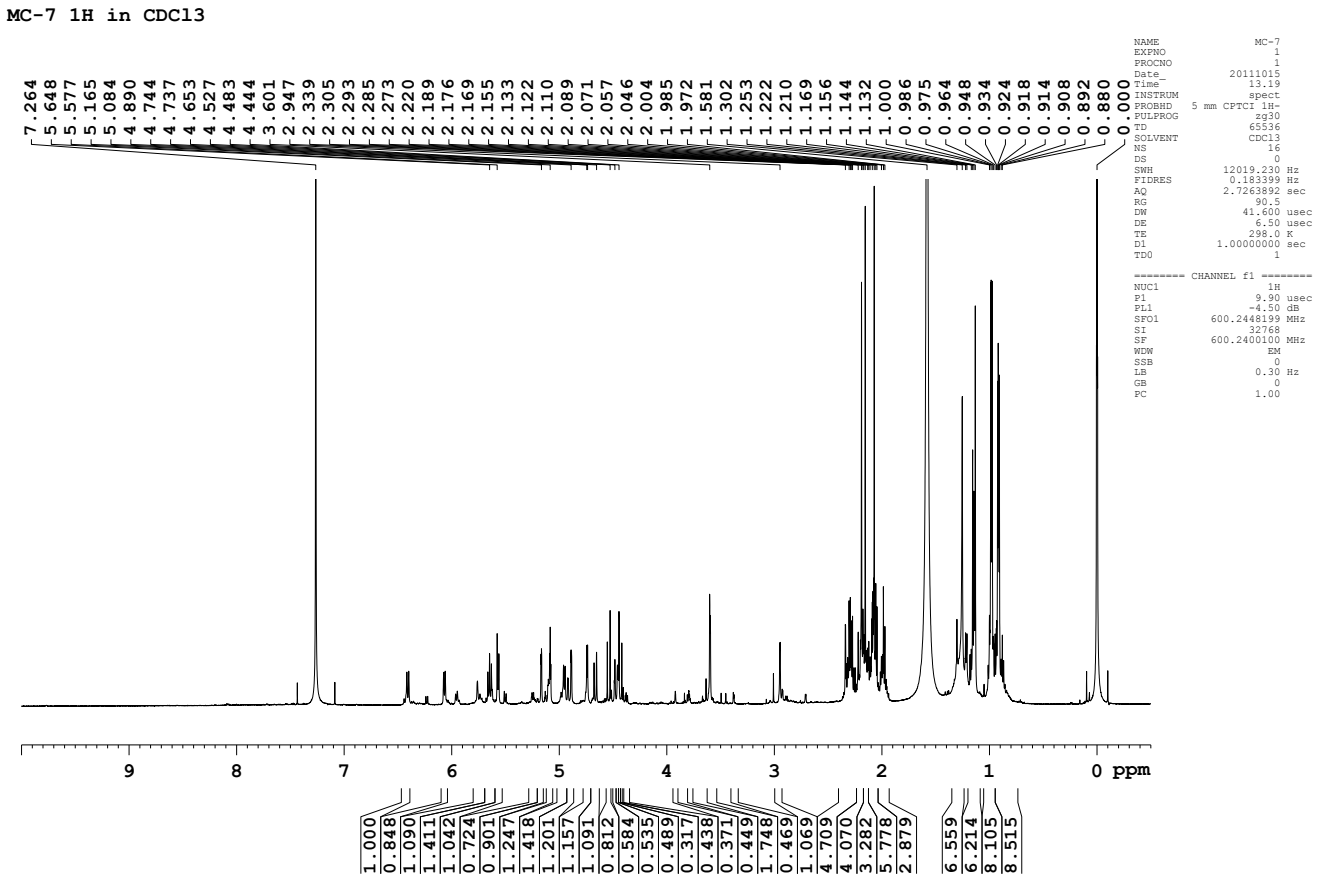

Figure S99. ^{13}C NMR spectrum of compound **13** in $CDCl_3$.

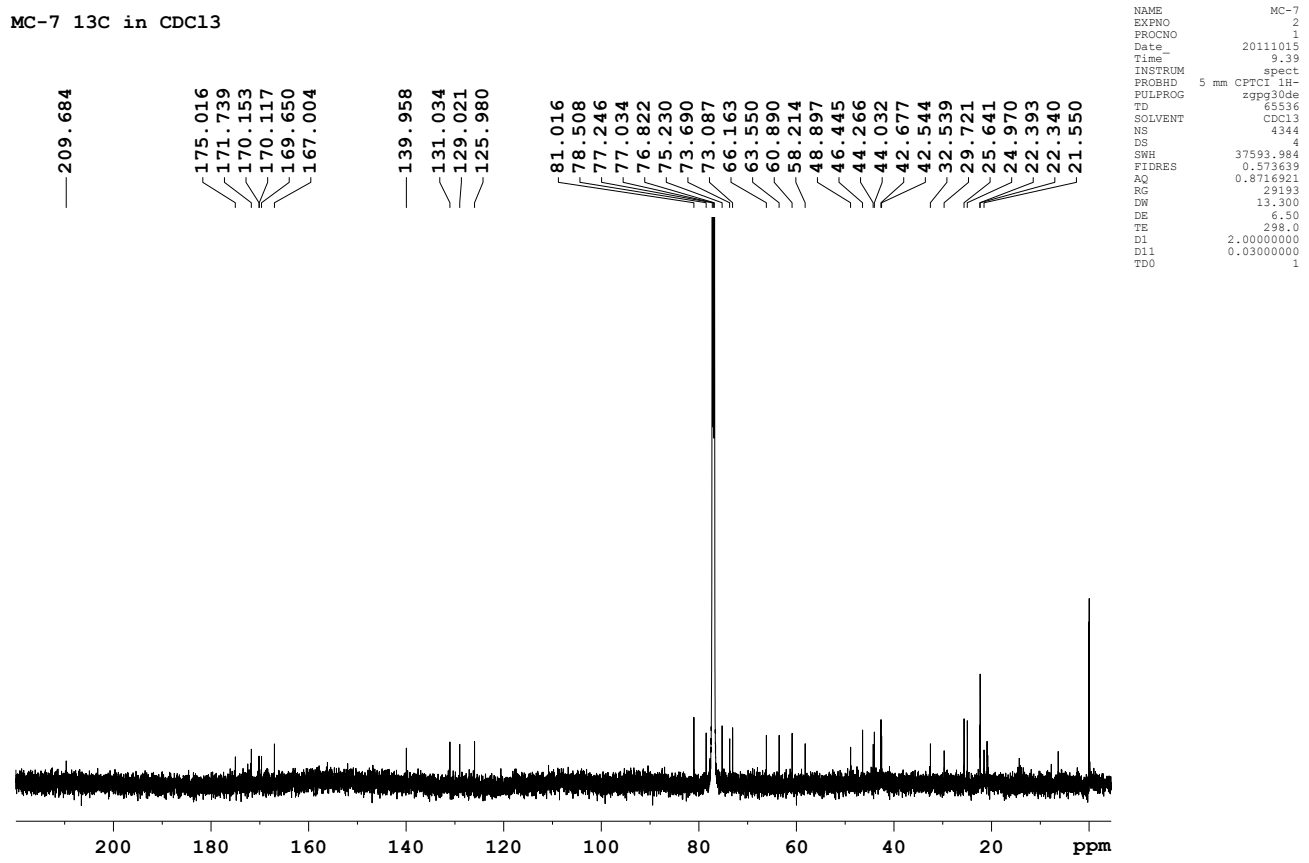

Figure S100. DEPT spectrum of compound **13** in $CDCl_3$.

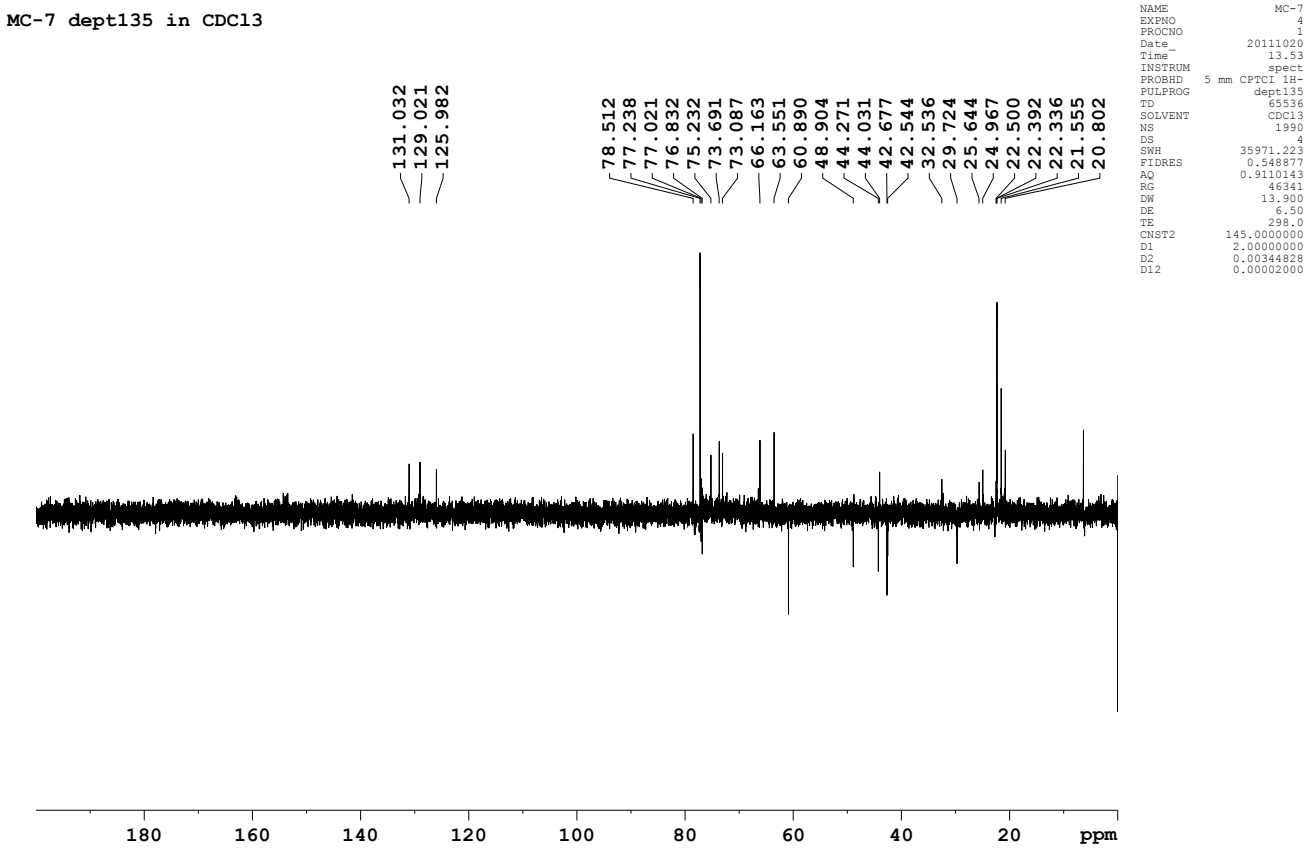

Figure S101. HSQC spectrum of compound **13** in $CDCl_3$.

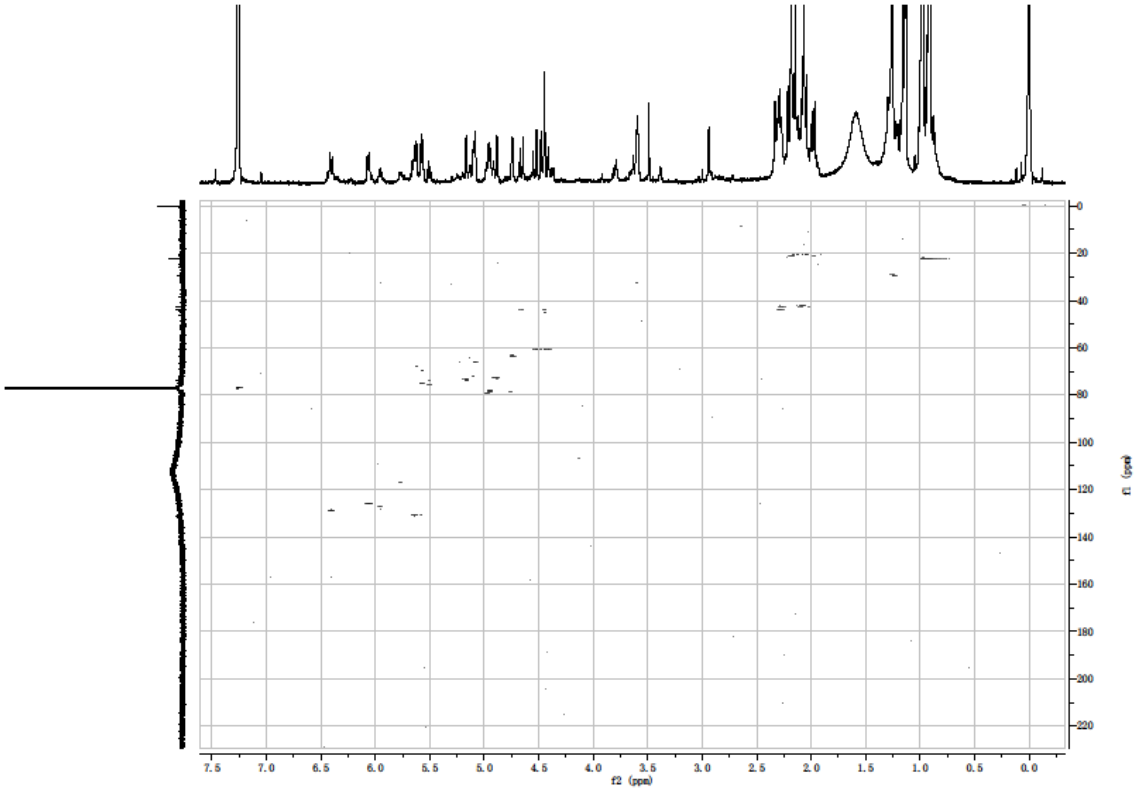

Figure S102. ^{1}H-^{1}H COSY spectrum of compound **13** in $CDCl_3$.

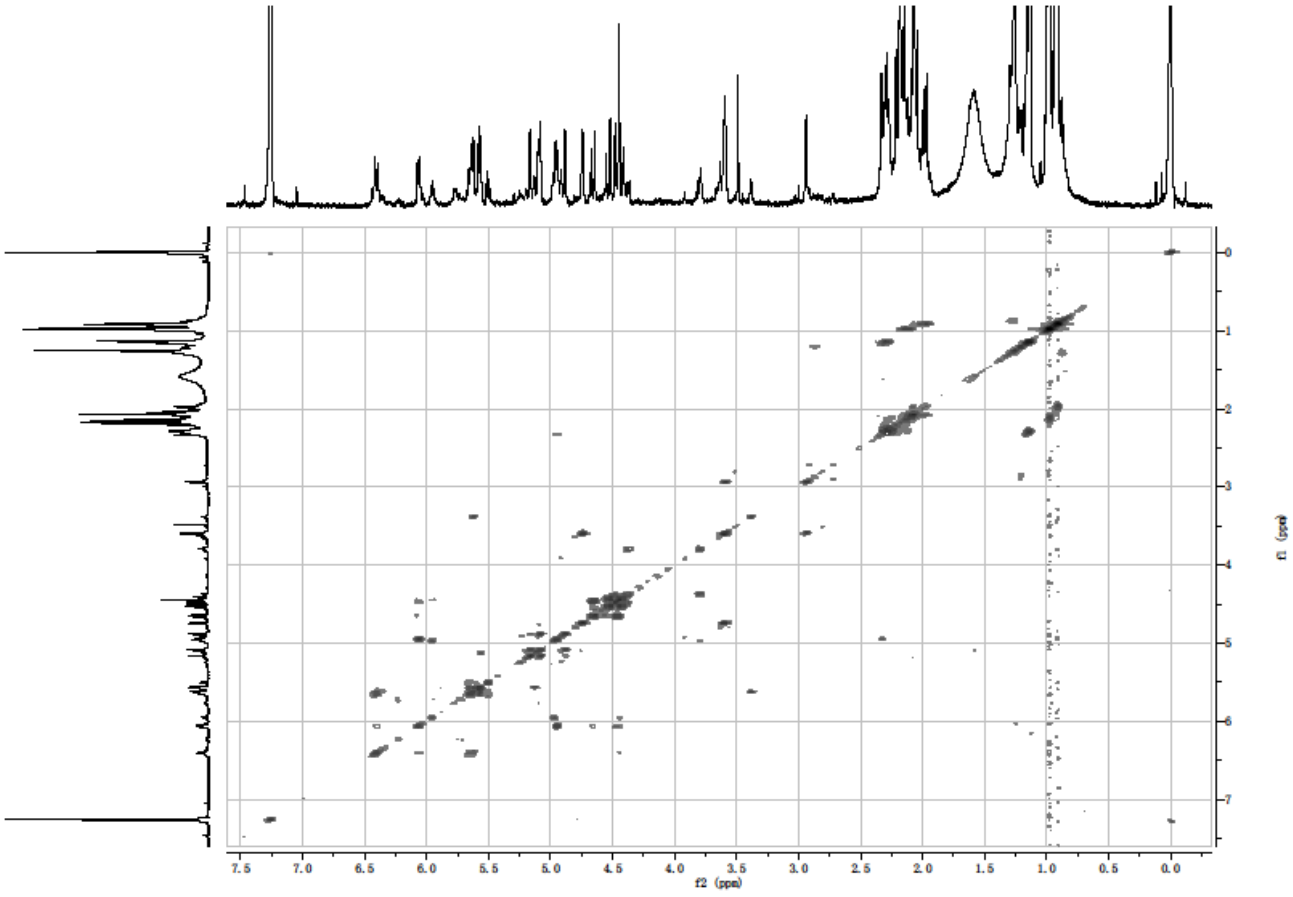

Figure S103. HMBC spectrum of compound **13** in $CDCl_3$.

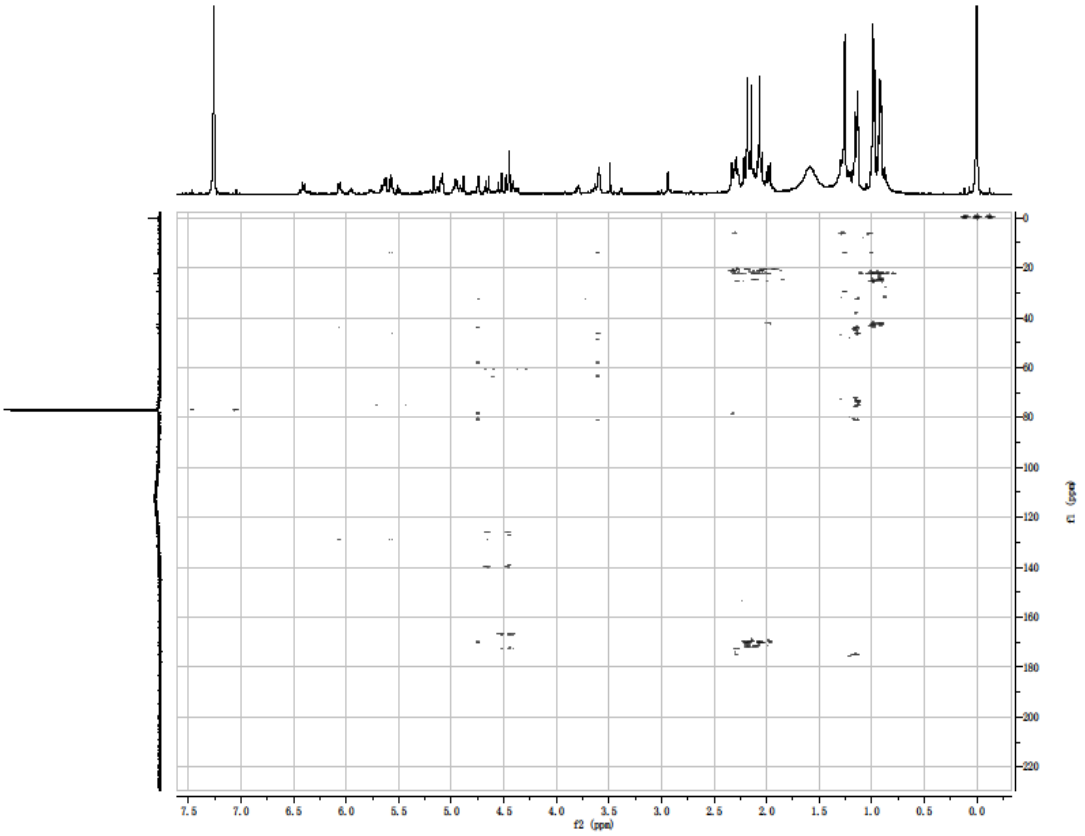

Figure S104. NOESY spectrum of compound **13** in $CDCl_3$.

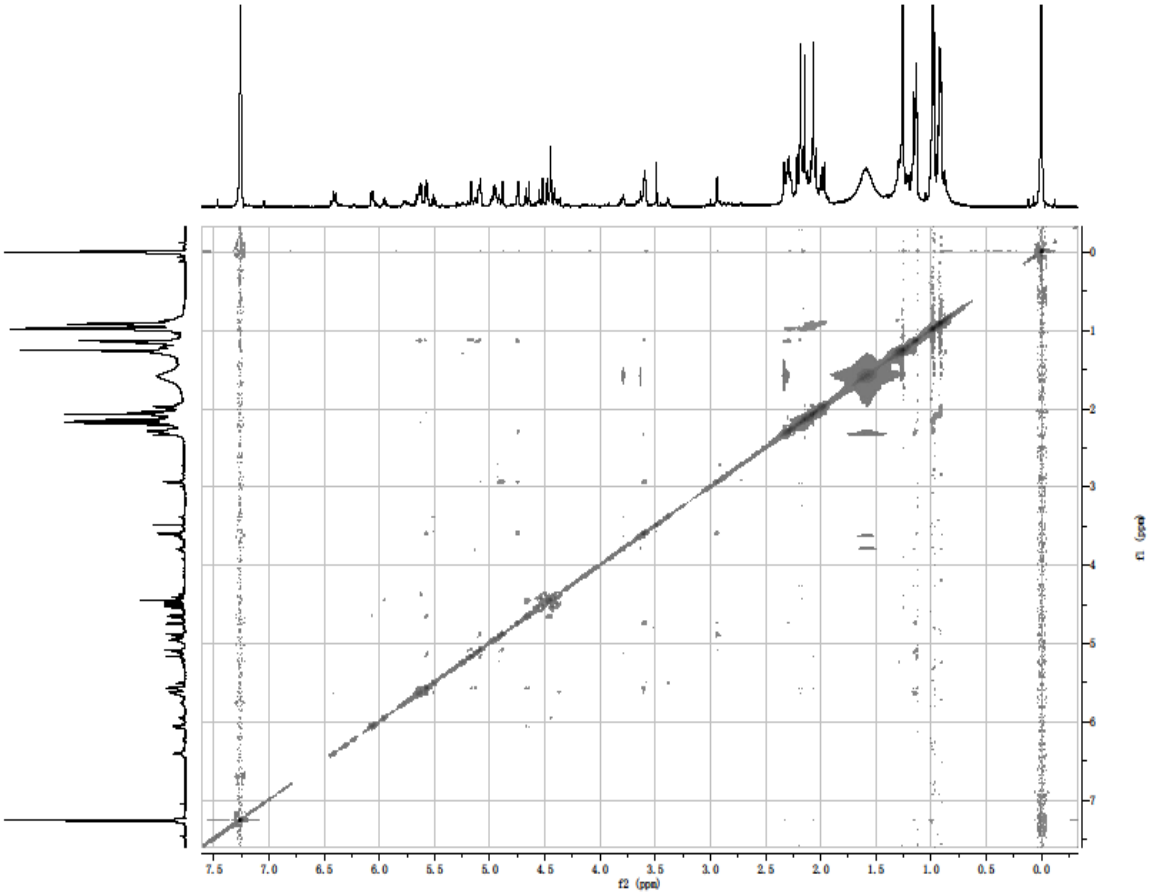

Figure S105. HRESI spectrum of compound **14**.

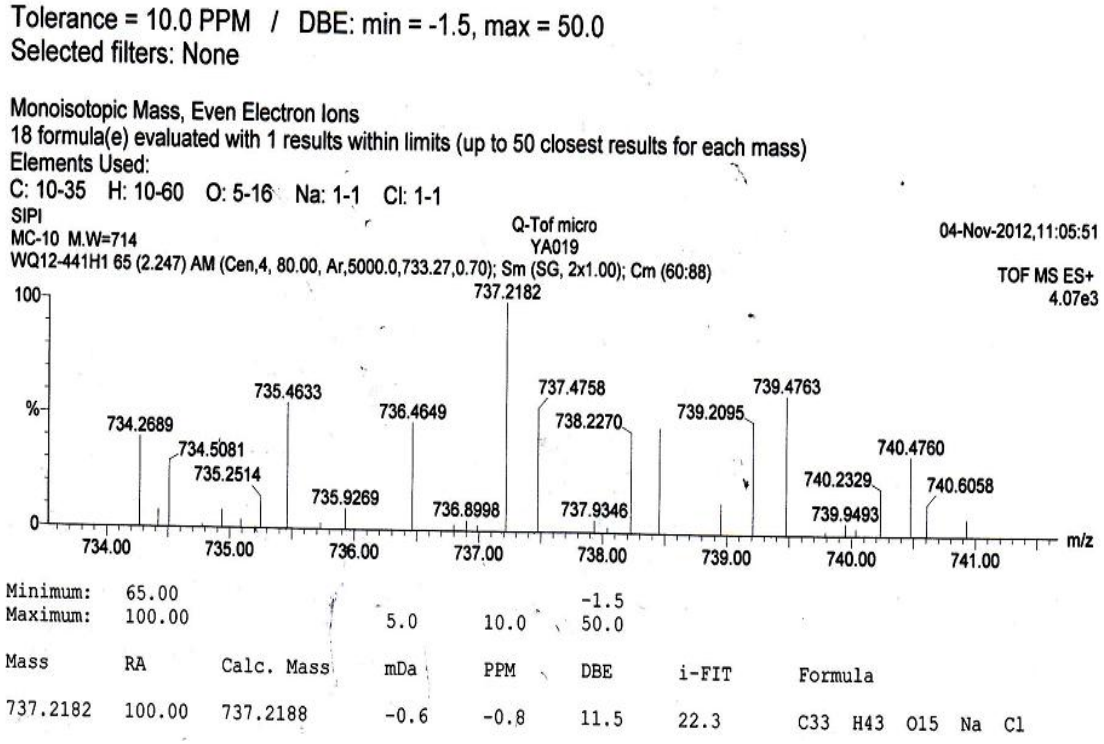

Figure S106. ^{1}H NMR spectrum of compound **14** in $CDCl_3$.

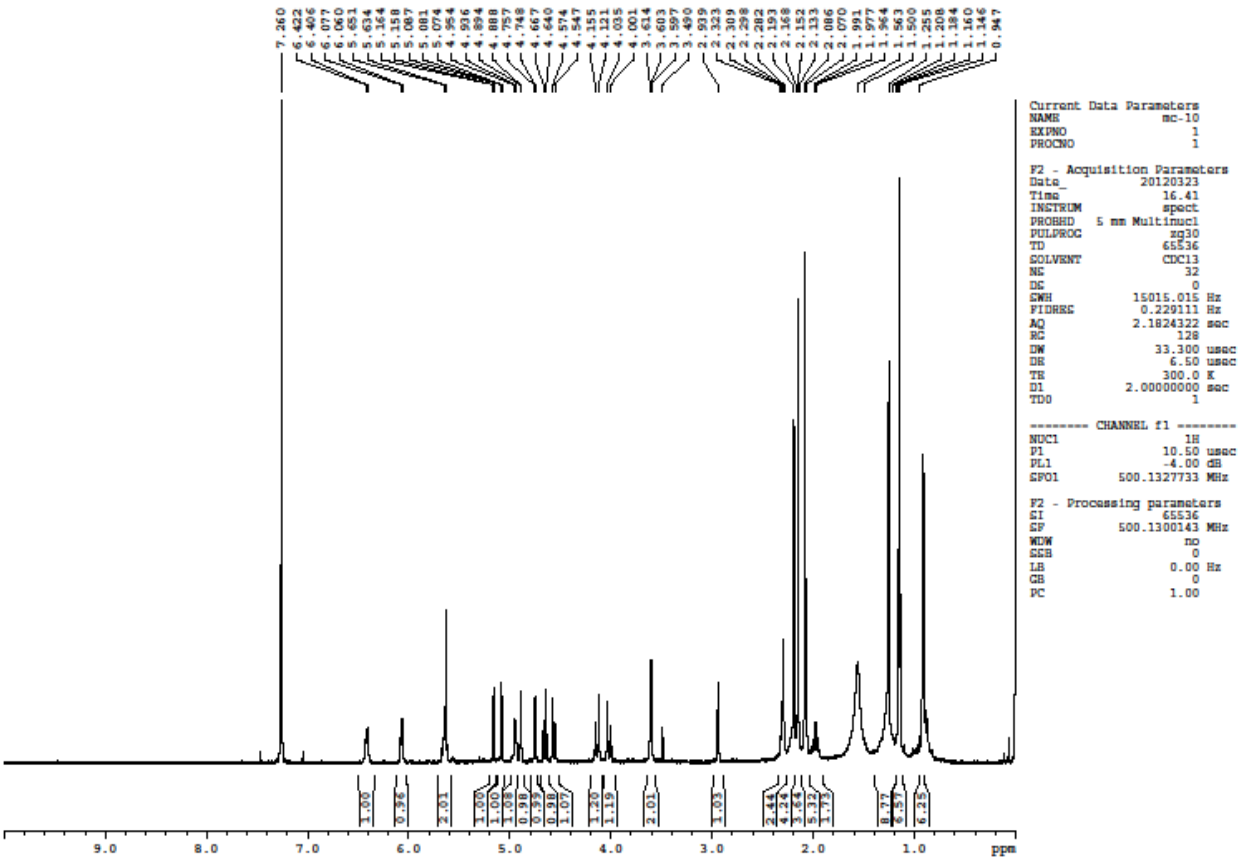

Figure S107. ^{13}C NMR spectrum of compound **14** in $CDCl_3$.

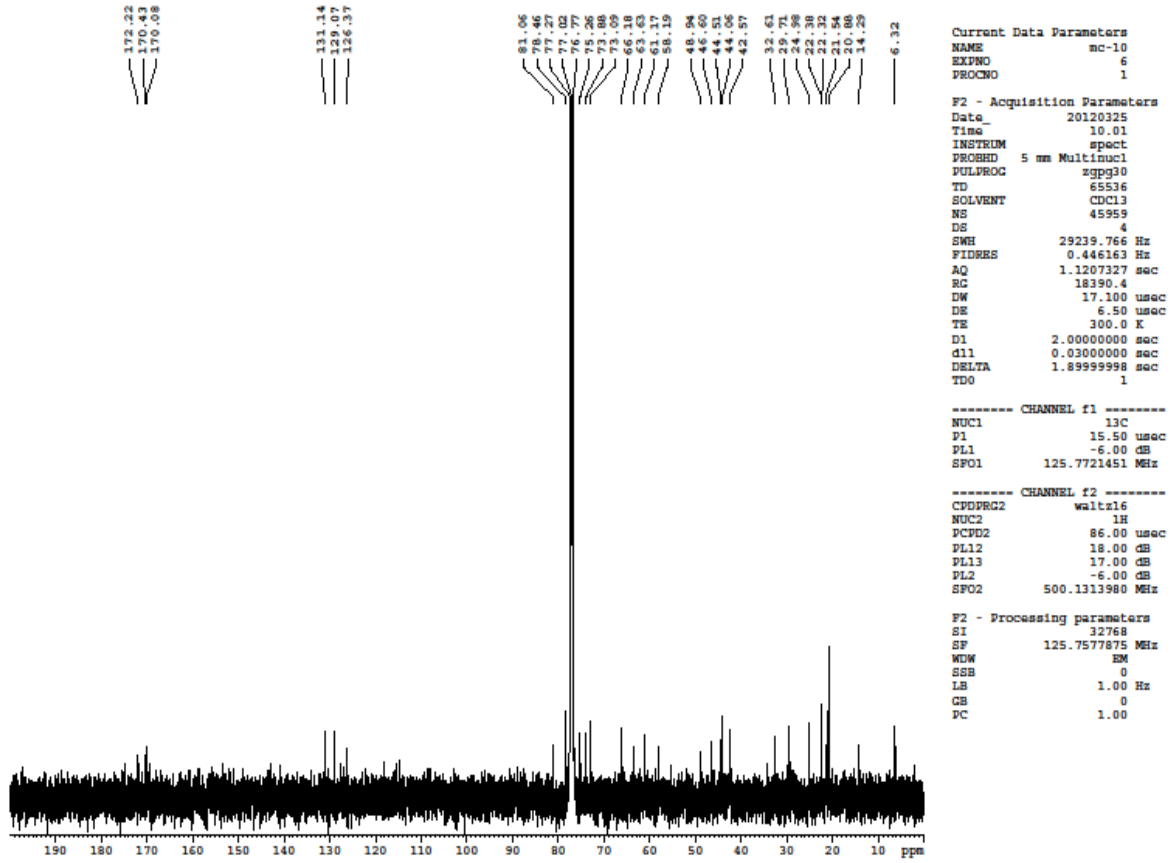

Figure S108. DEPT spectrum of compound **14** in $CDCl_3$.

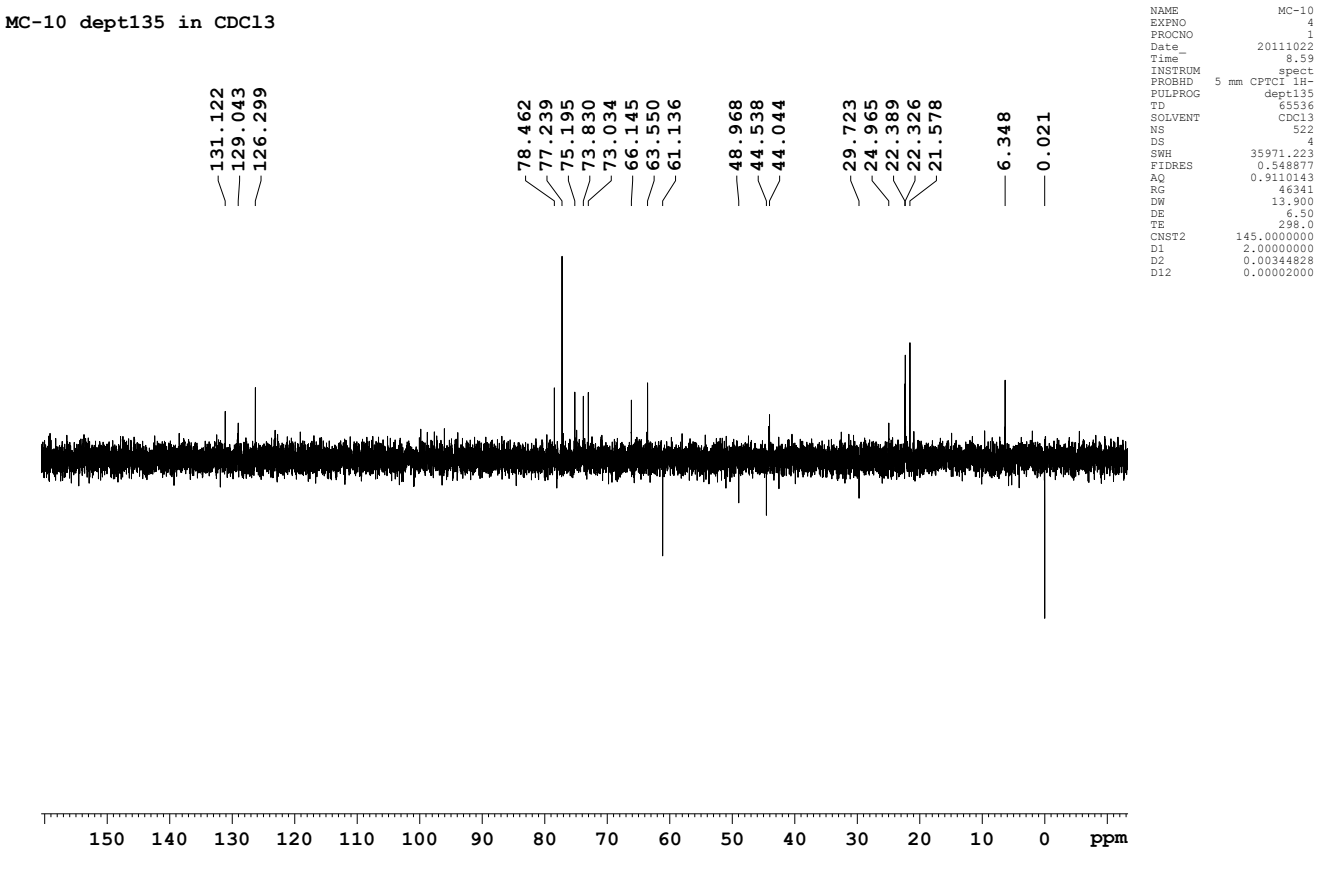

Figure S109. HSQC spectrum of compound **14** in $CDCl_3$.

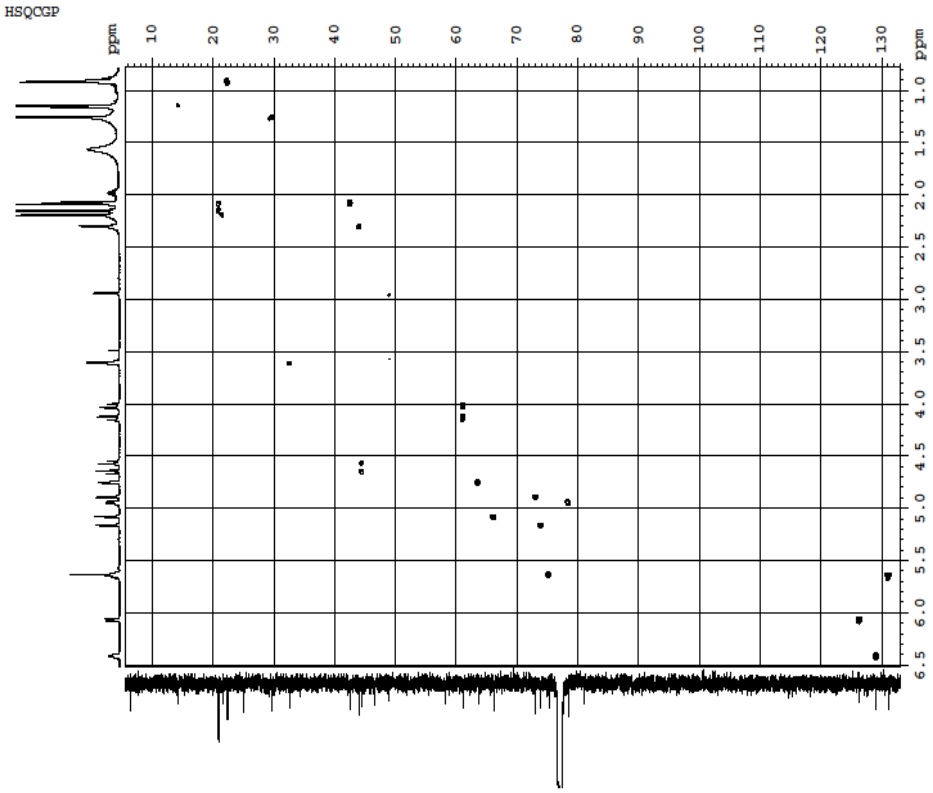

Figure S110. ^{1}H-^{1}H COSY spectrum of compound **14** in $CDCl_3$.

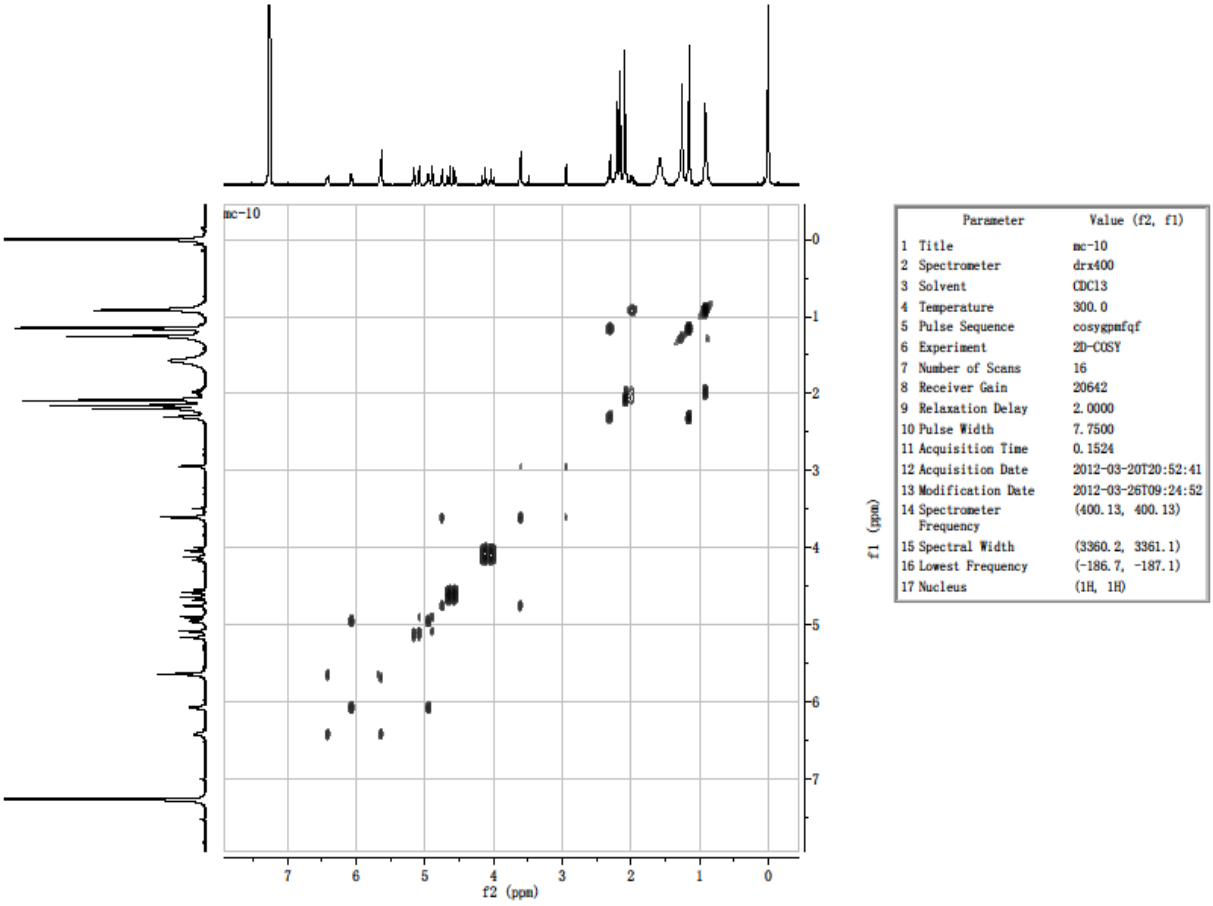

Figure S111. HMBC spectrum of compound **14** in $CDCl_3$.

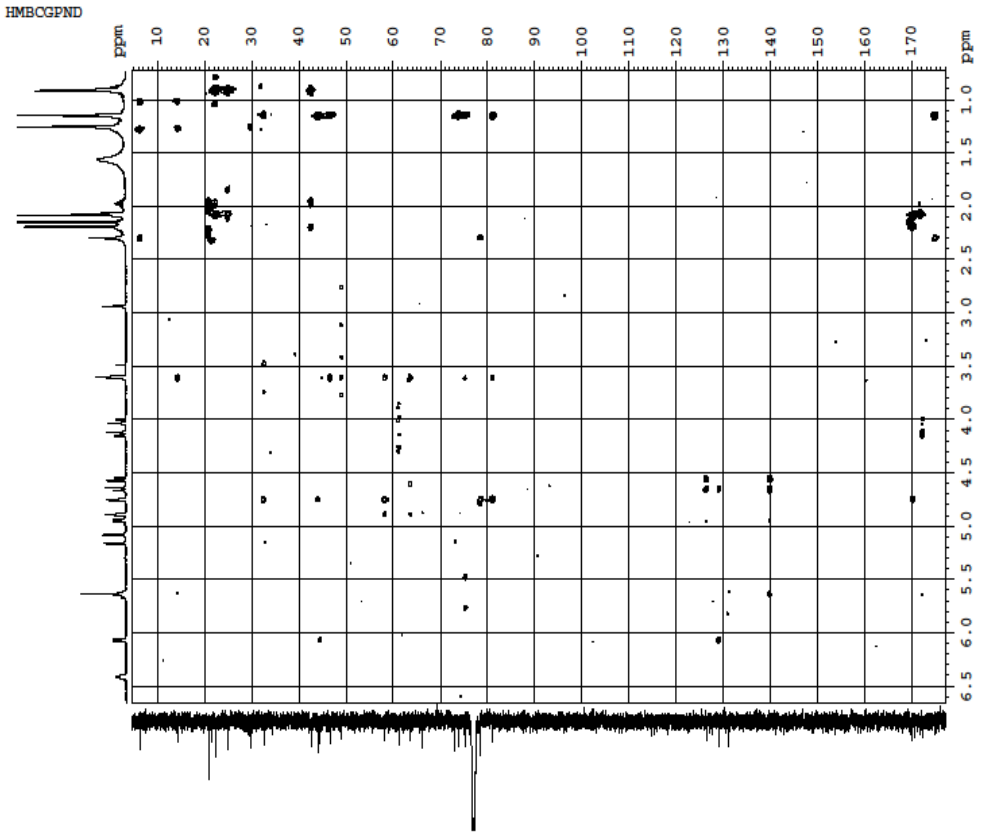

Figure S112. NOESY spectrum of compound **14** in $CDCl_3$.

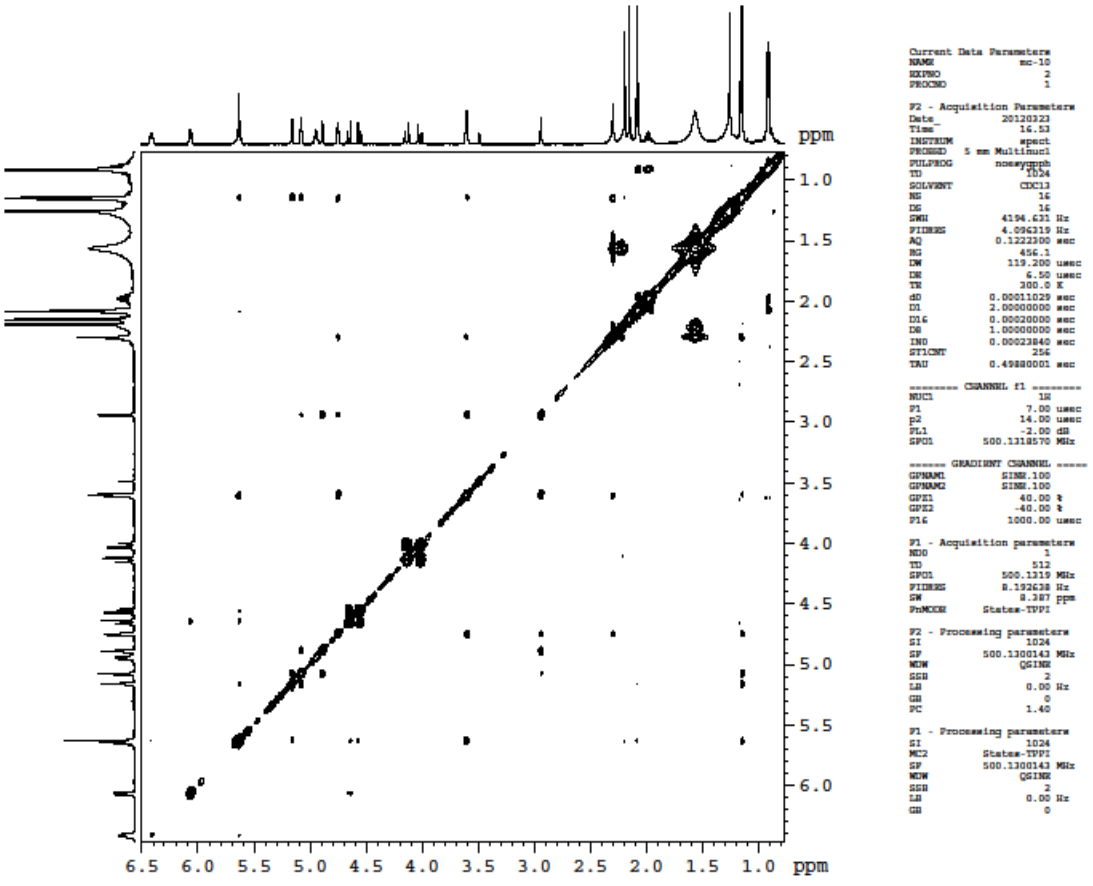

Figure S113. HR-ESIMS spectrum of the new compound **15**.

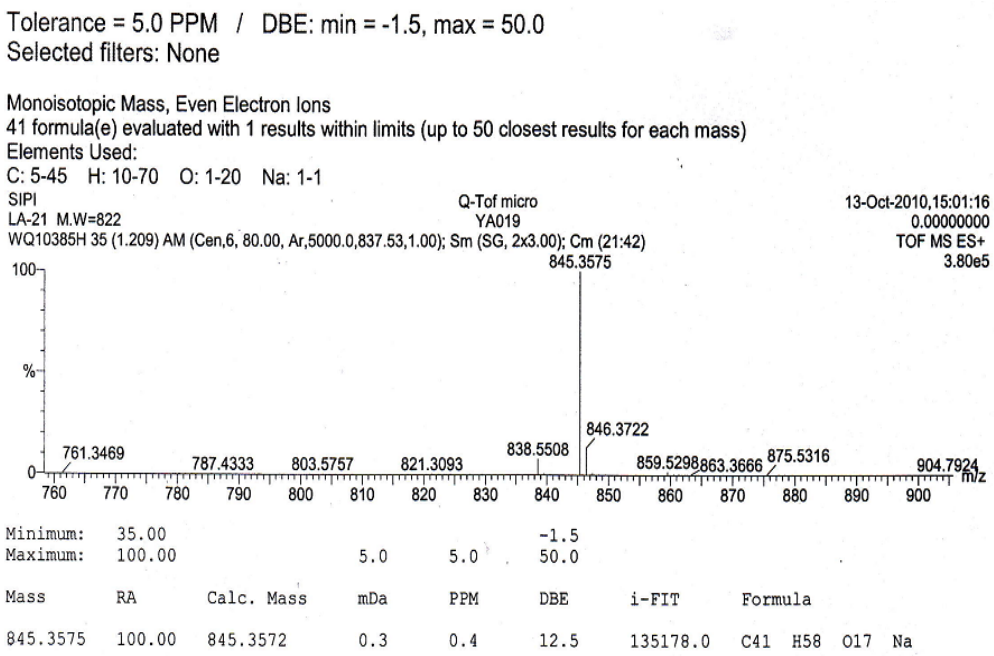

Figure S114. ^{1}H NMR spectrum of the new compound **15**.

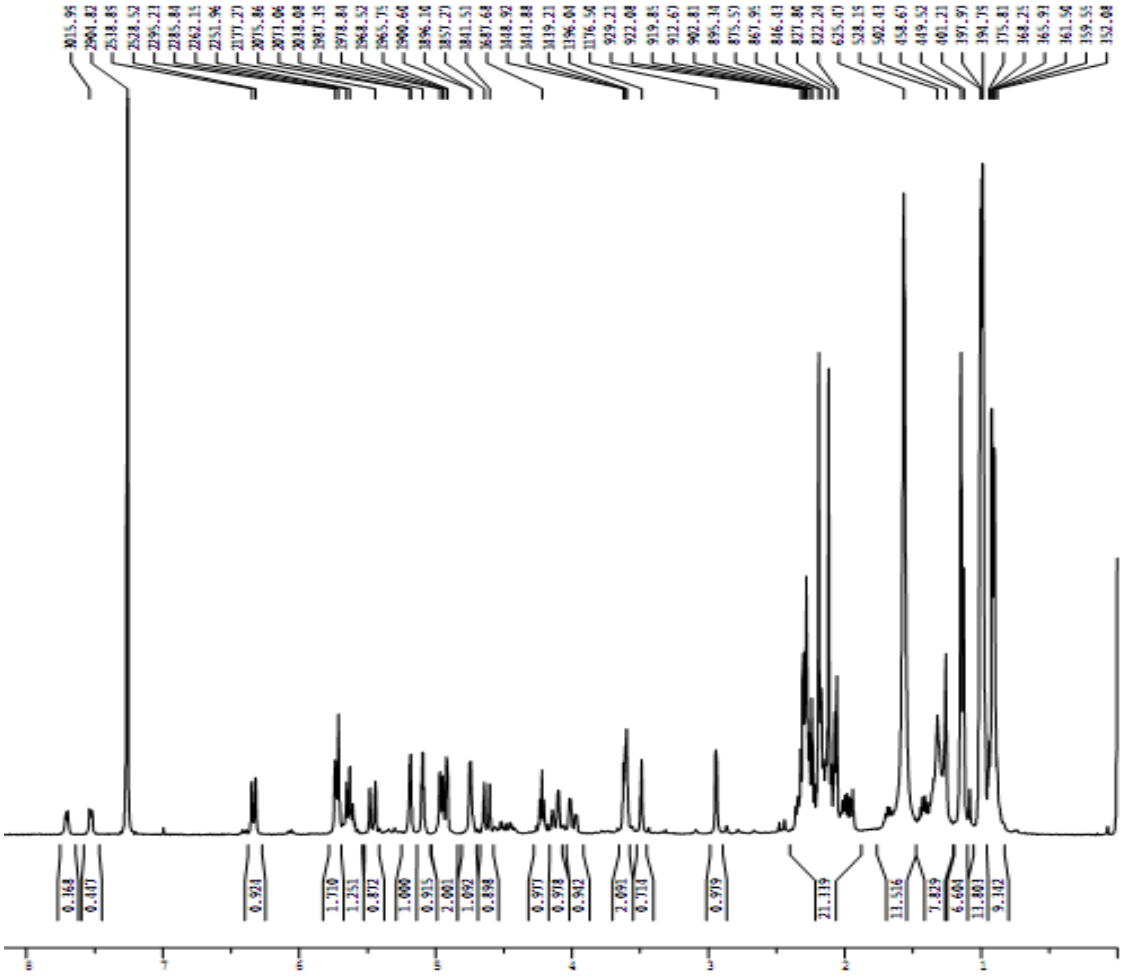

Figure S115. ^{13}C NMR spectrum of the new compound **15**.

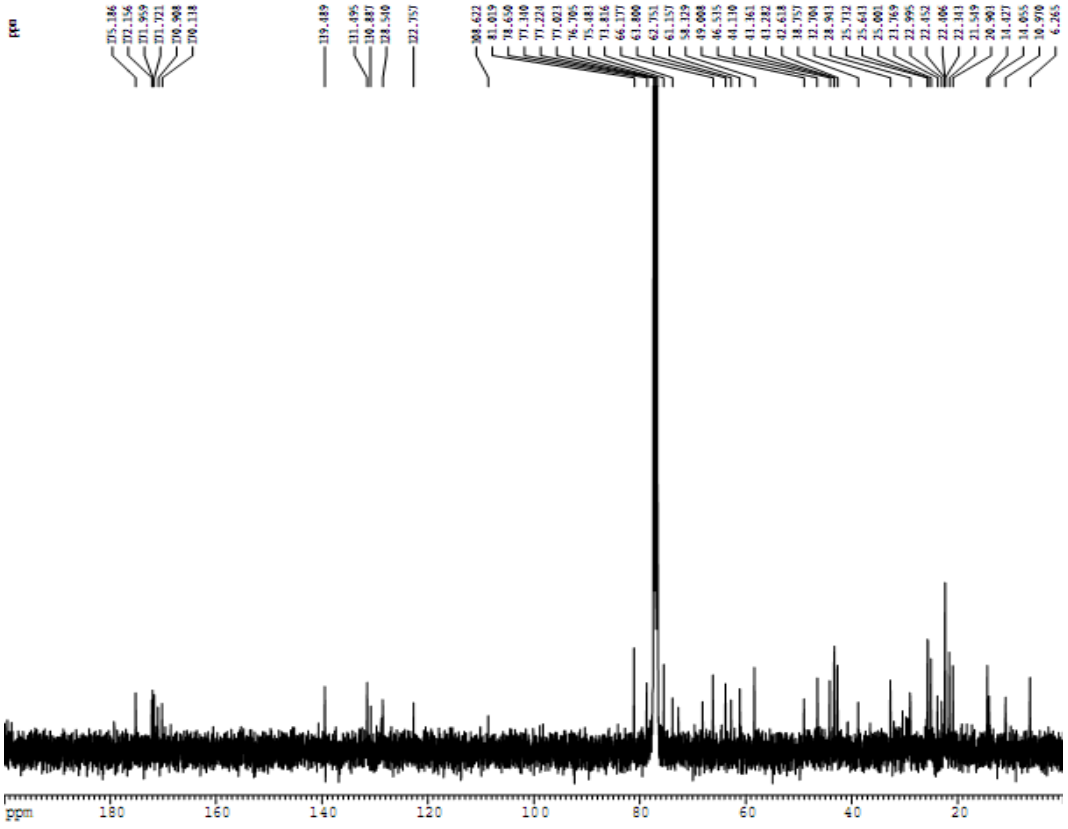

Figure S116. DEPT spectrum of the new compound **15**.

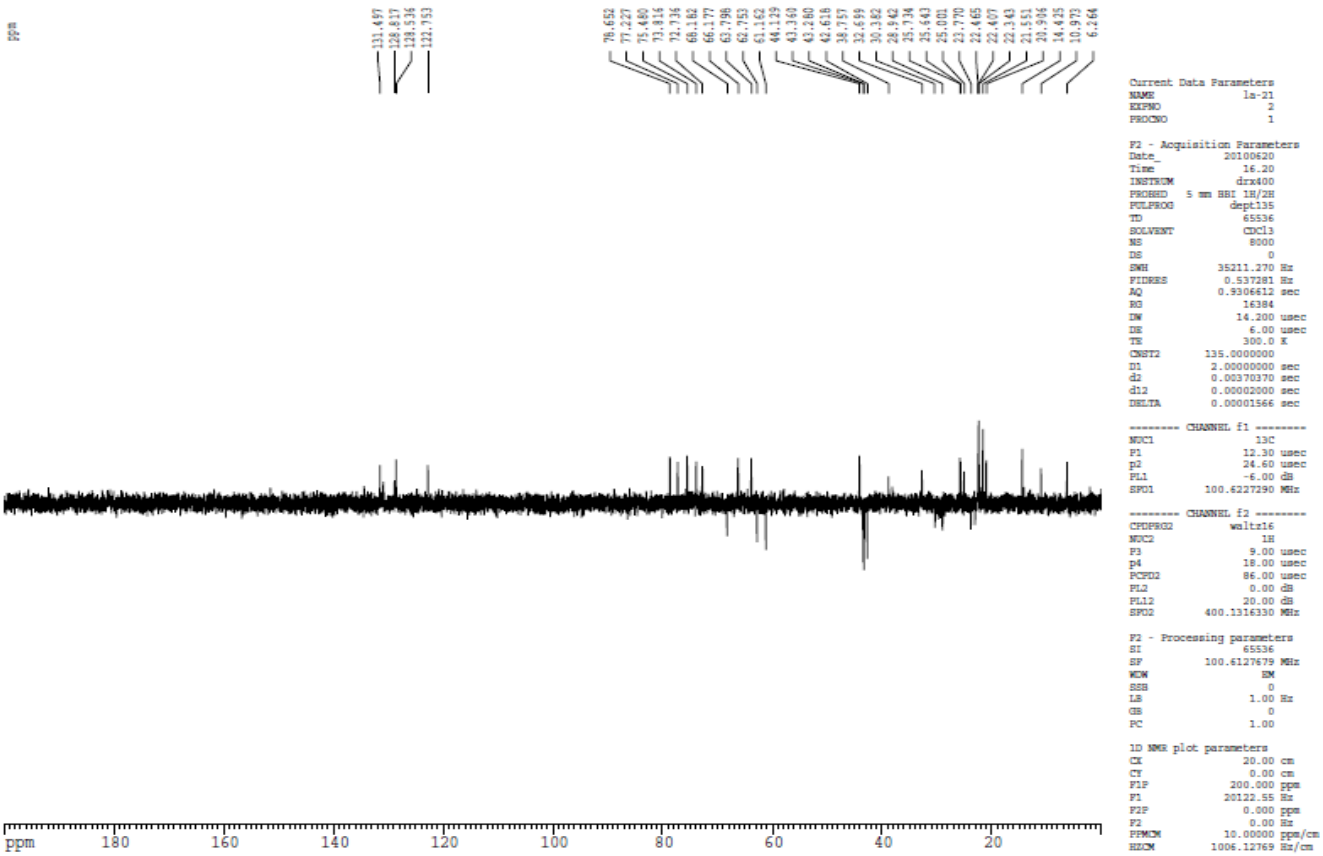

Figure S117. HSQC spectrum of the new compound **15**.

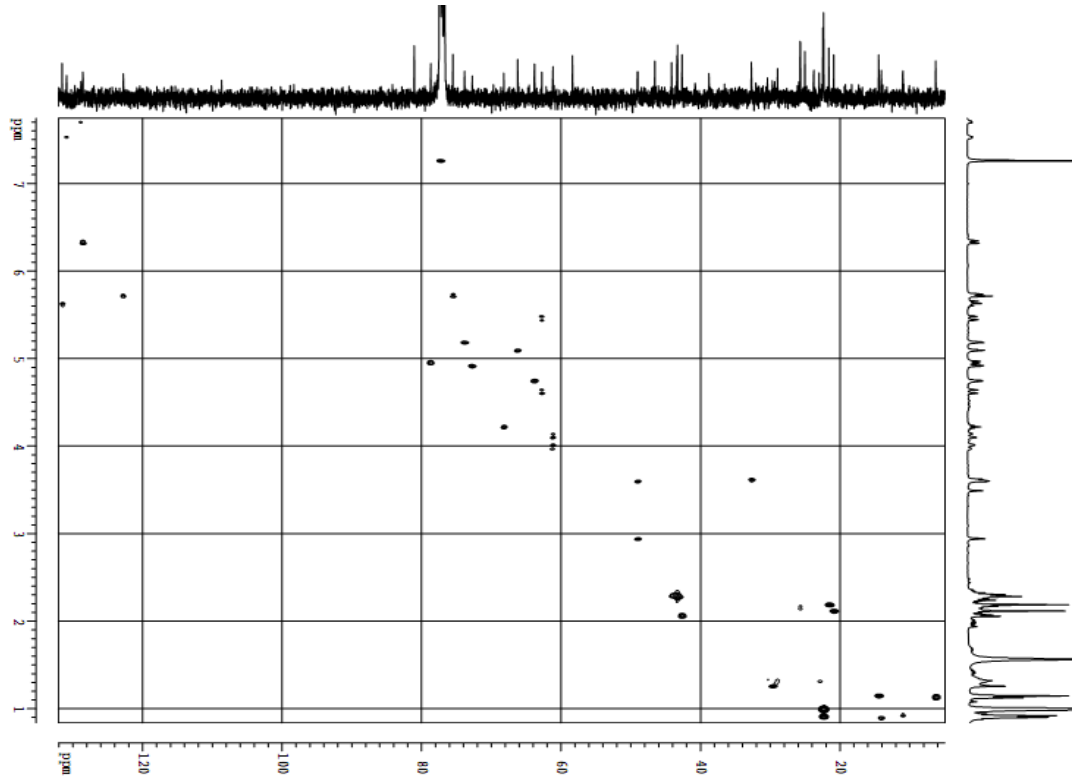

Figure S118. ^{1}H-^{1}H COSY spectrum of the new compound **15**.

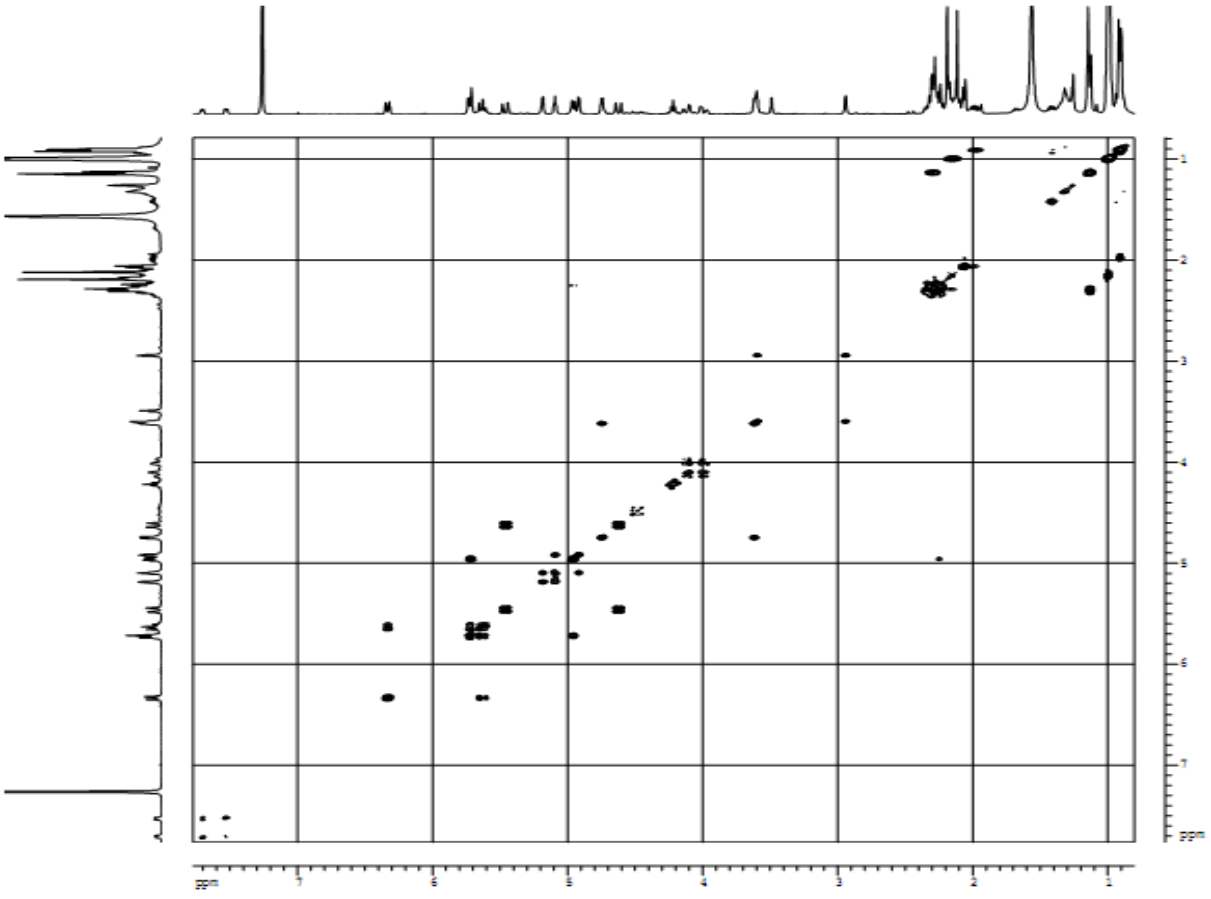

Figure S119. HMBC spectrum of the new compound **15**.

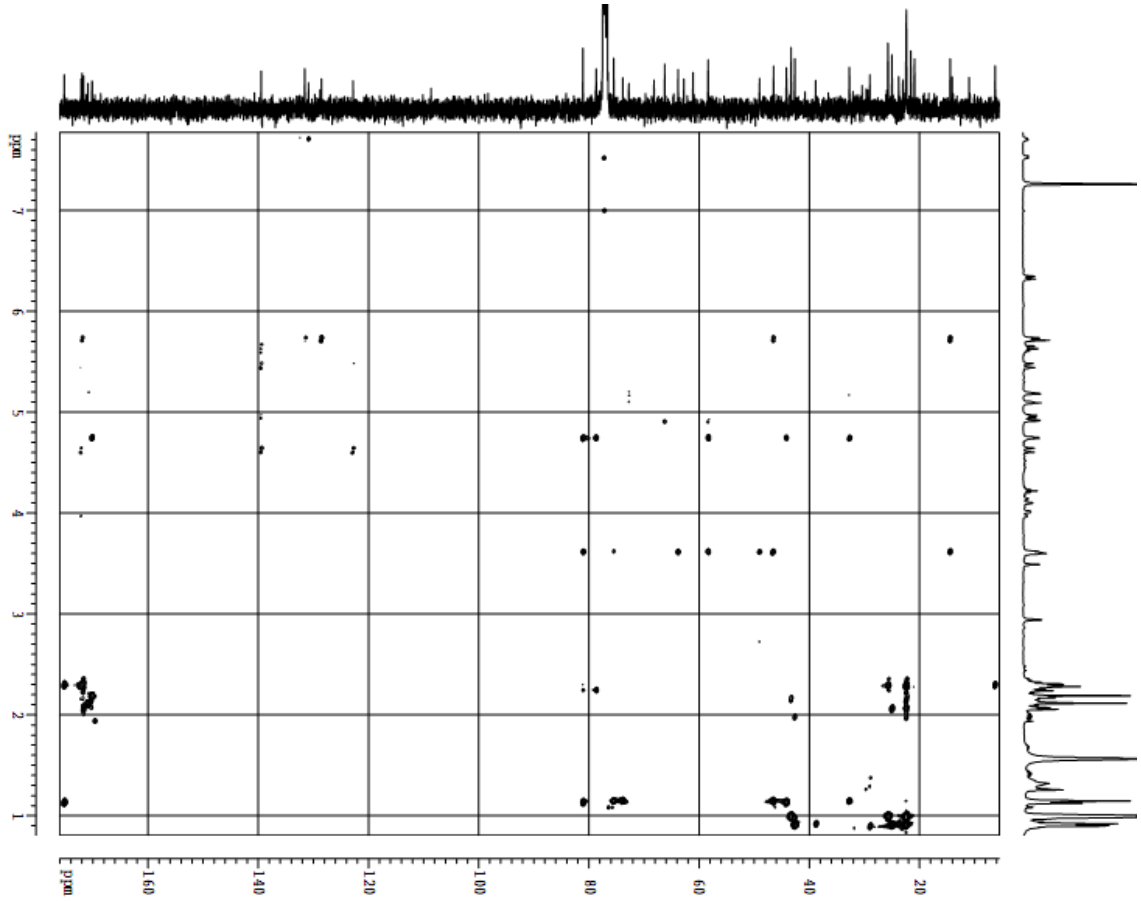

Figure S120. NOESY spectrum of the new compound **15**.

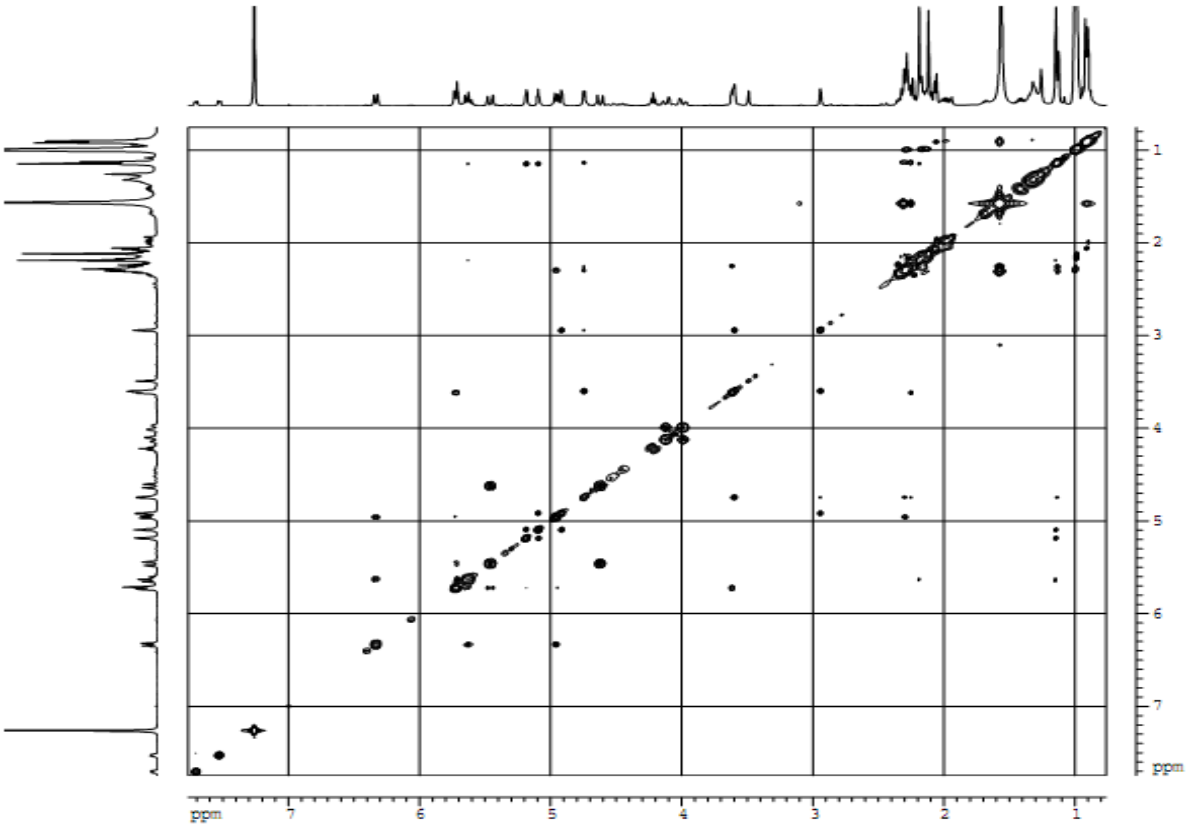

Figure S121. HRESIMS spectrum of compound **16**.

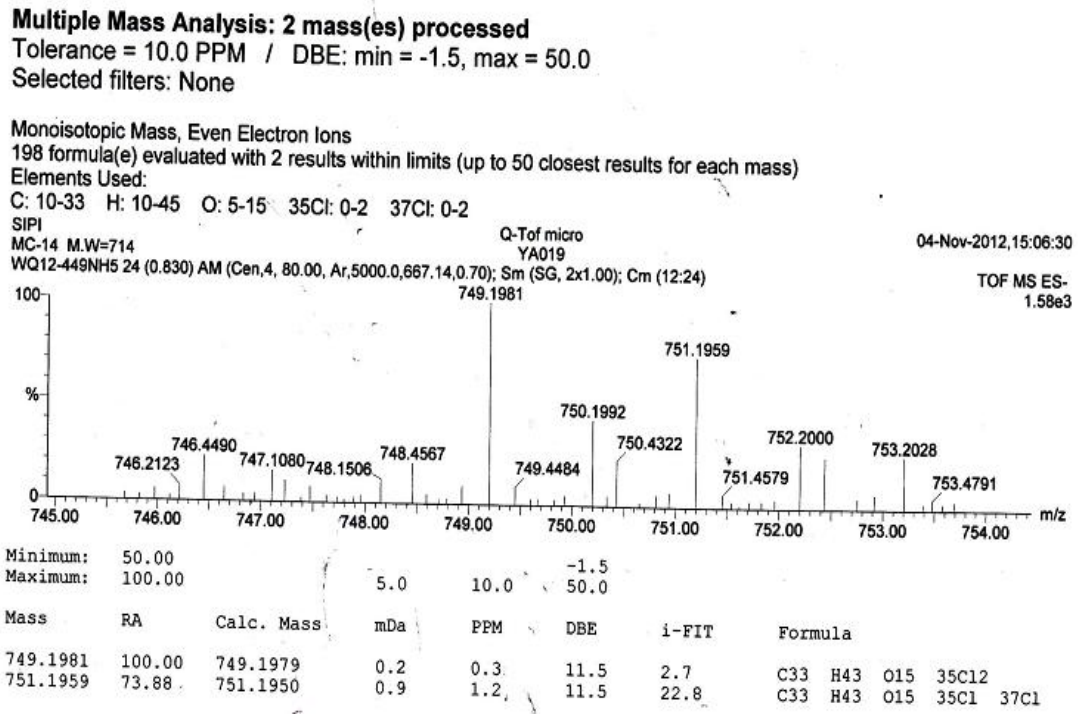

Figure S122. ^{1}H NMR spectrum of compound **16** in $CDCl_3$.

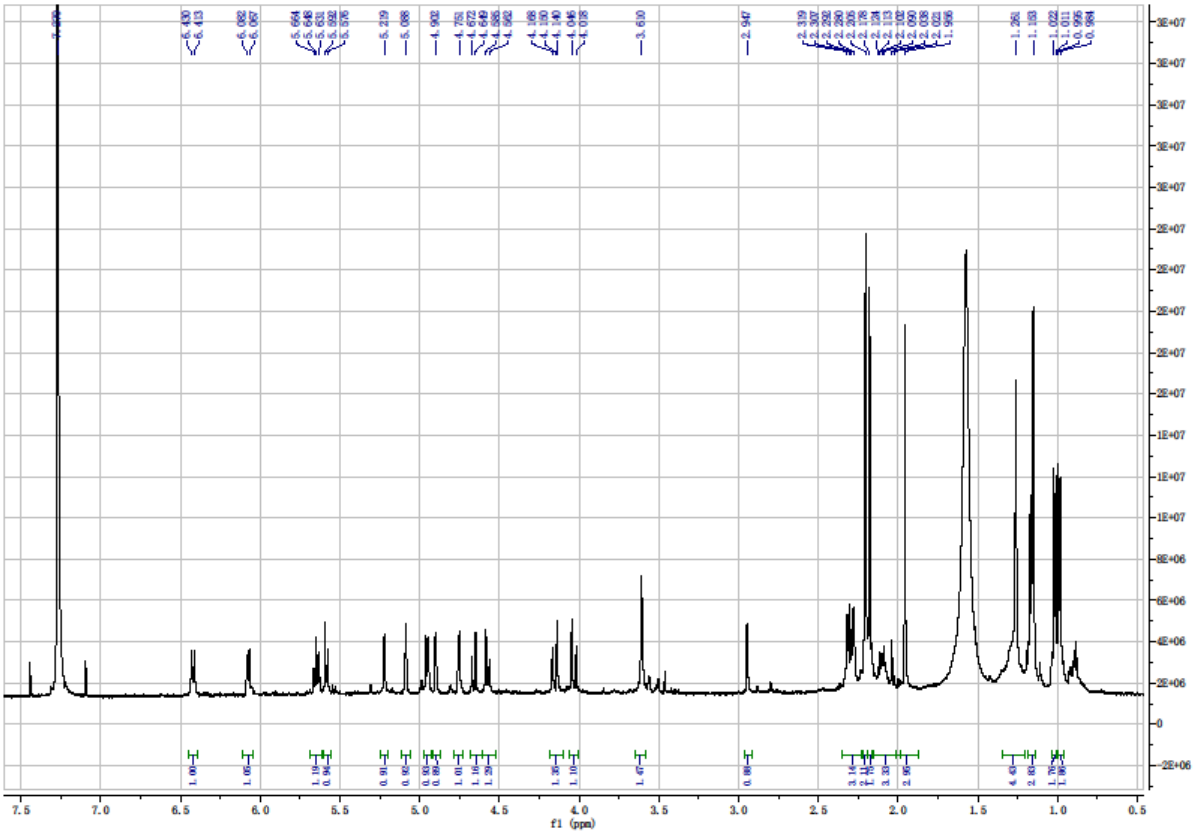

Figure S123. ^{13}C NMR spectrum of compound **16** in $CDCl_3$.

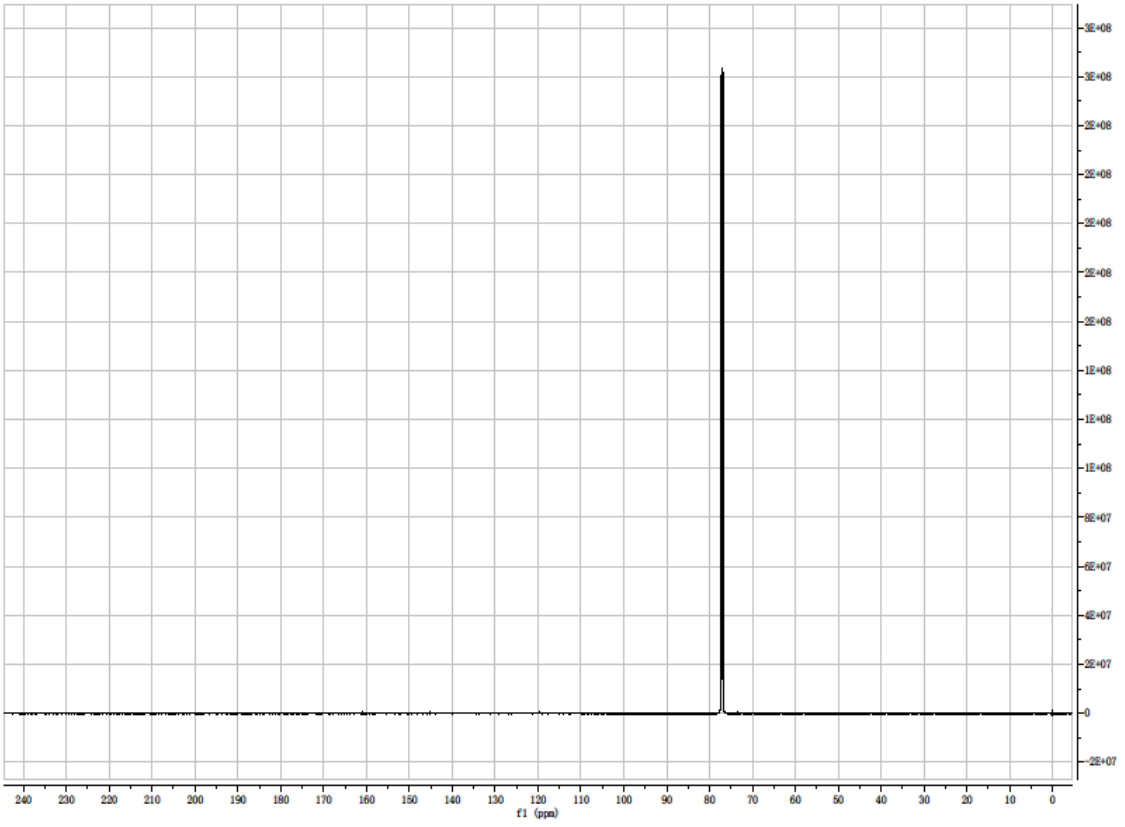

Figure S124. DEPT spectrum of compound **16** in $CDCl_3$.

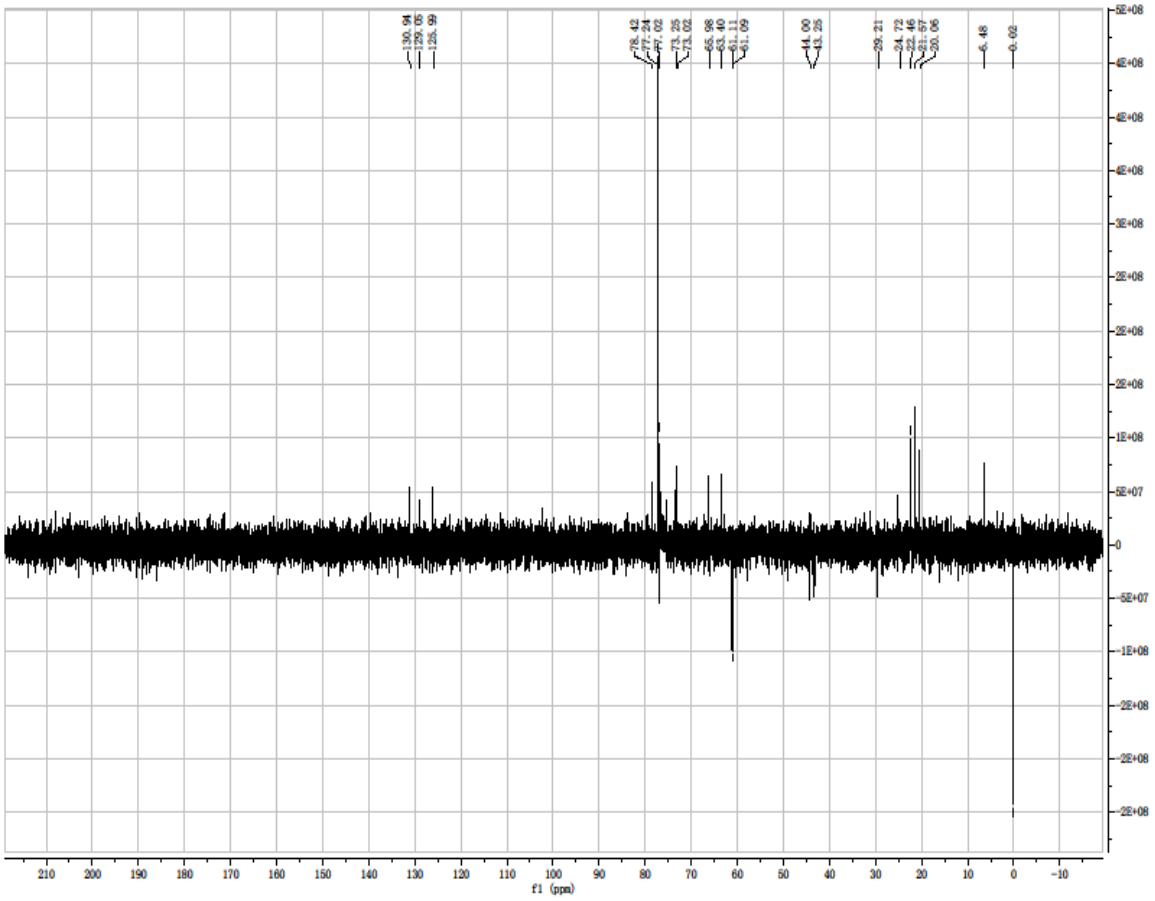

Figure S125. HSQC spectrum of compound **16** in $CDCl_3$.

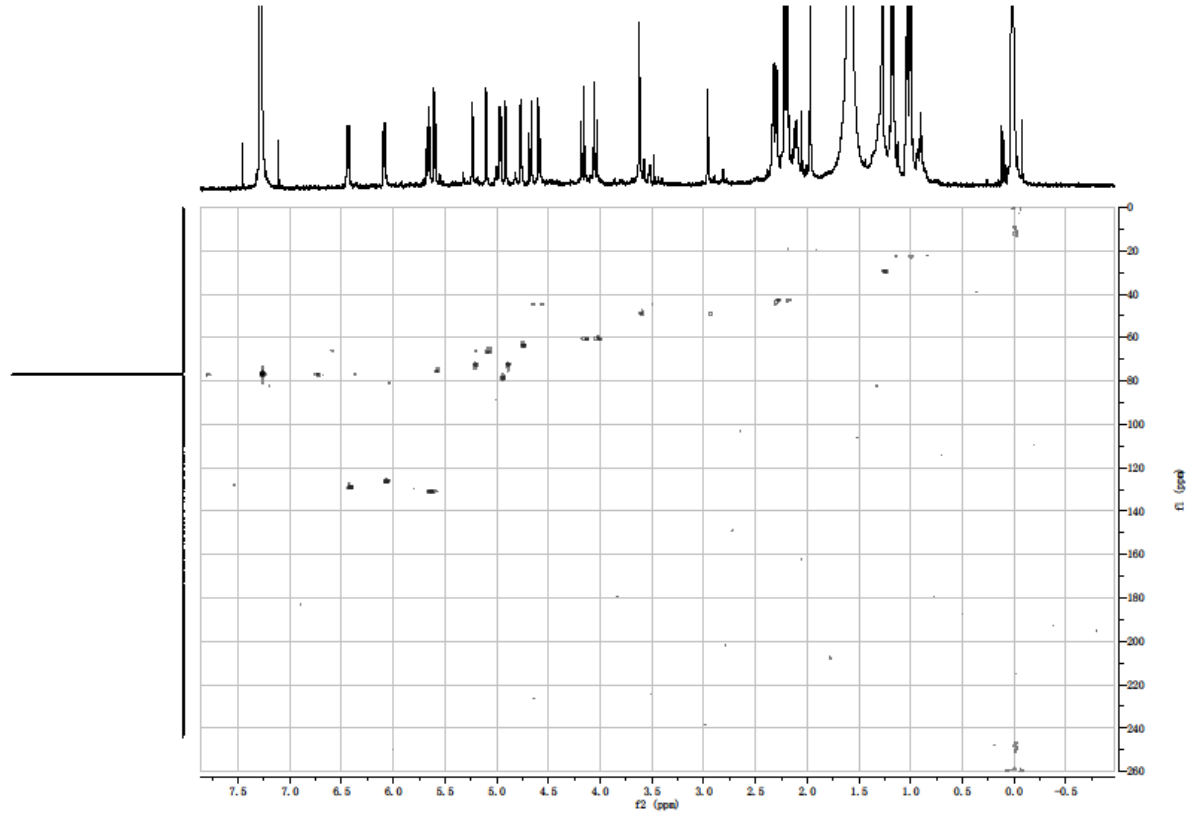

Figure S126. ^{1}H-^{1}H COSY spectrum of compound **16** in $CDCl_3$.

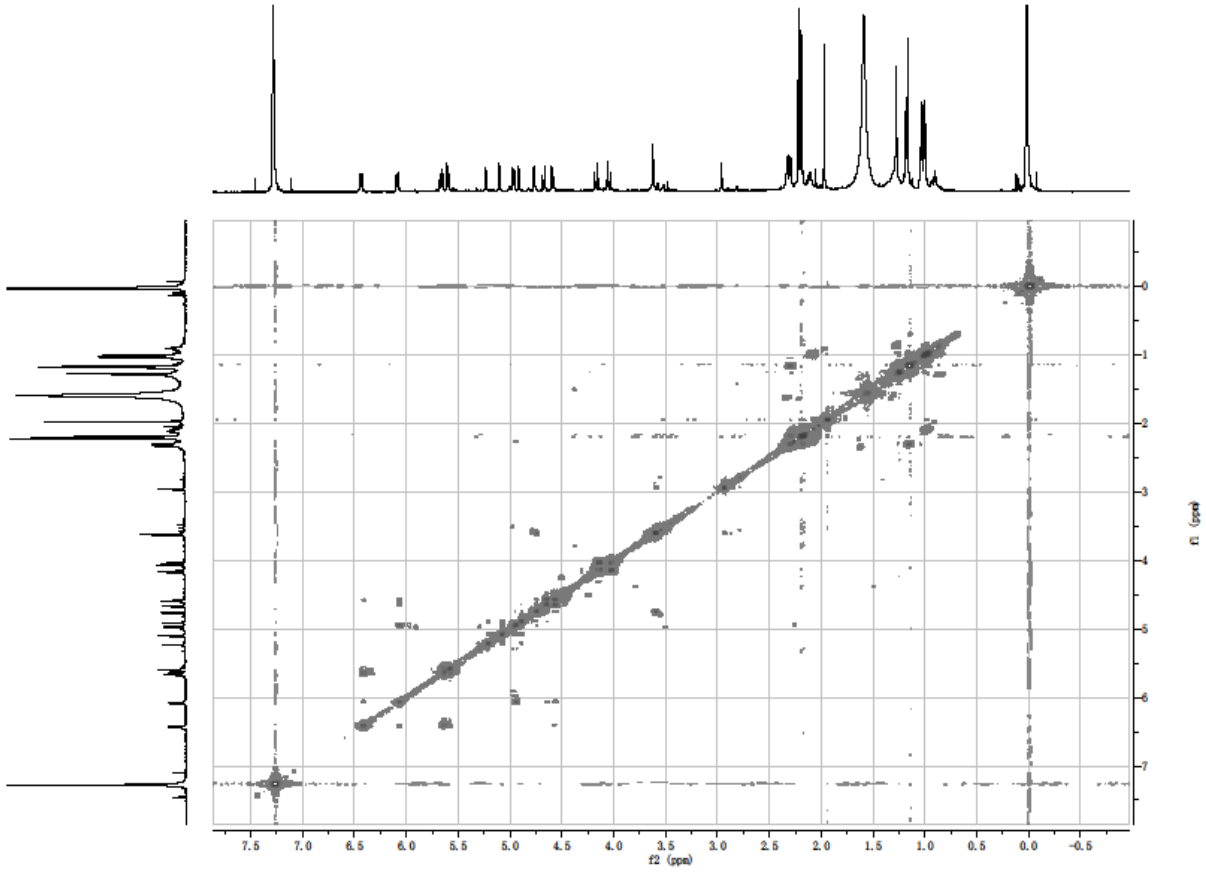

Figure S127. HMBC spectrum of compound **16** in $CDCl_3$.

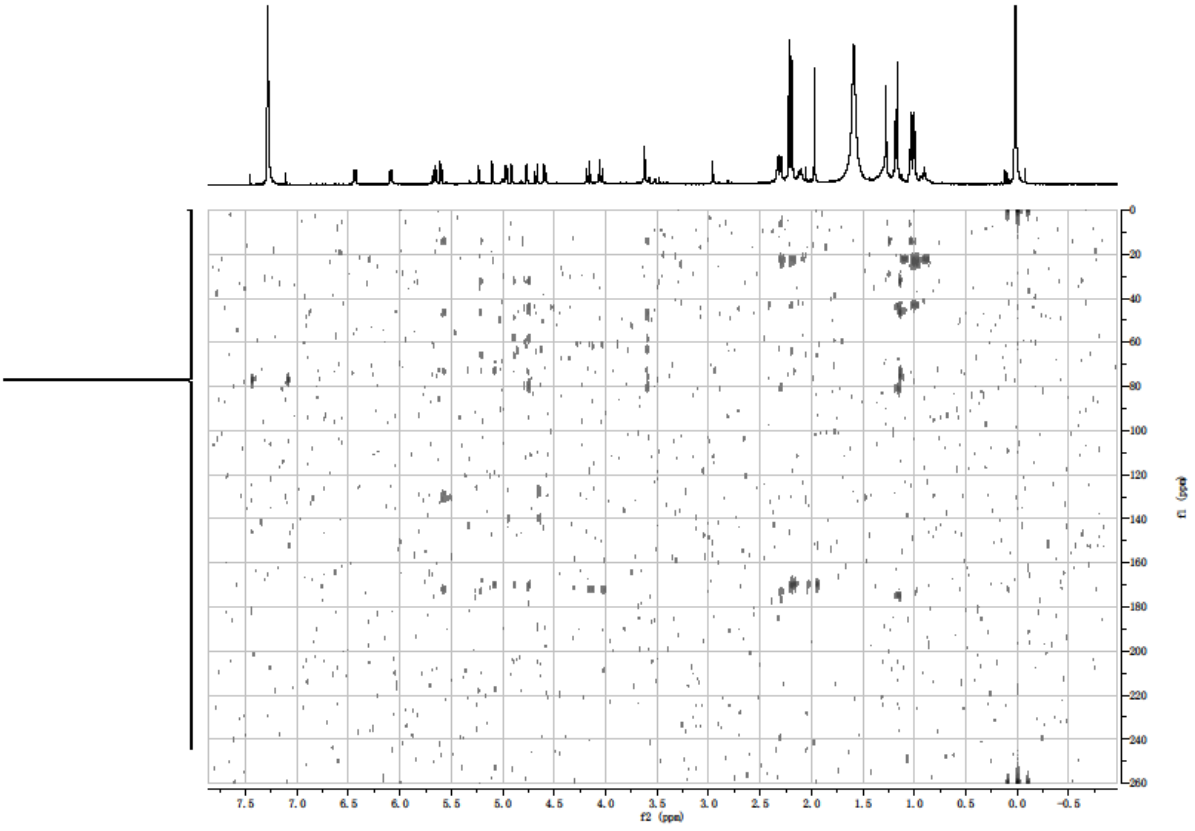

Figure S128. NOESY spectrum of compound **16** in $CDCl_3$.

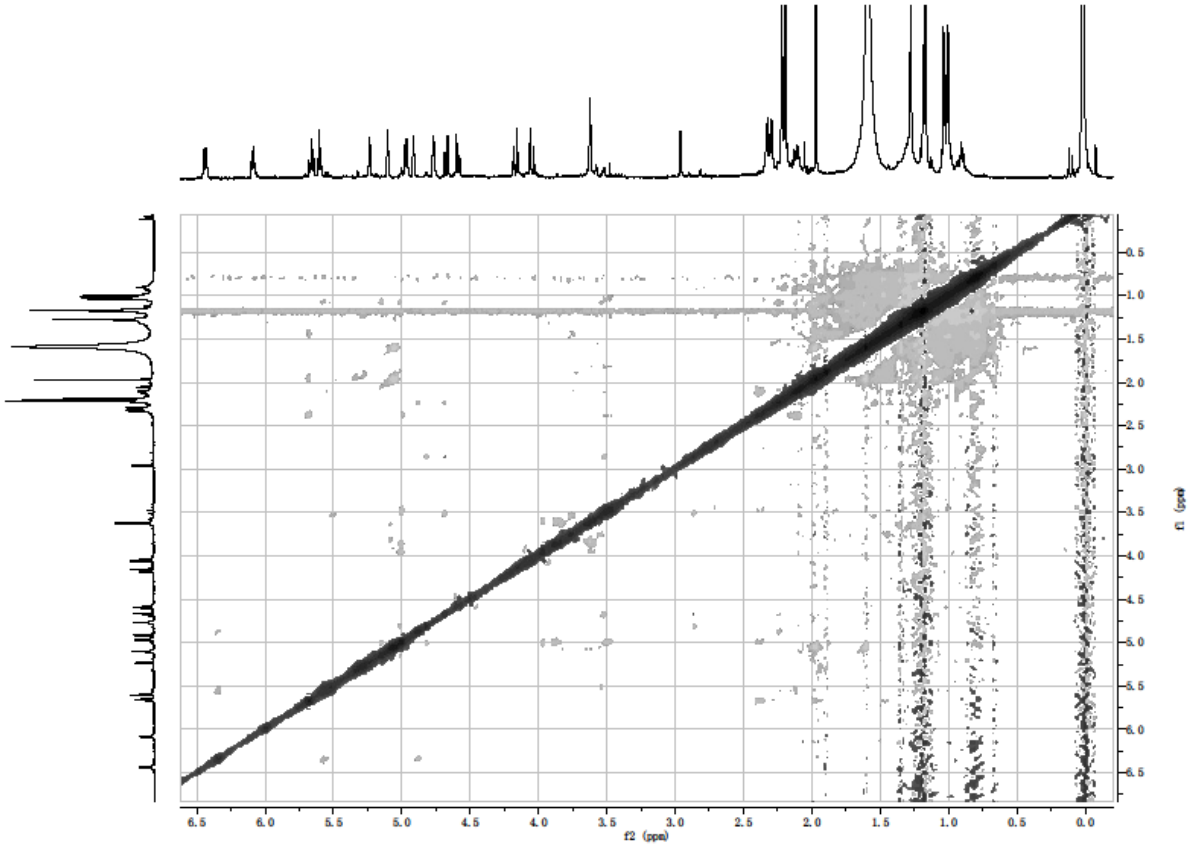

Figure S129. HR-ESIMS spectrum of the new compound **17**.

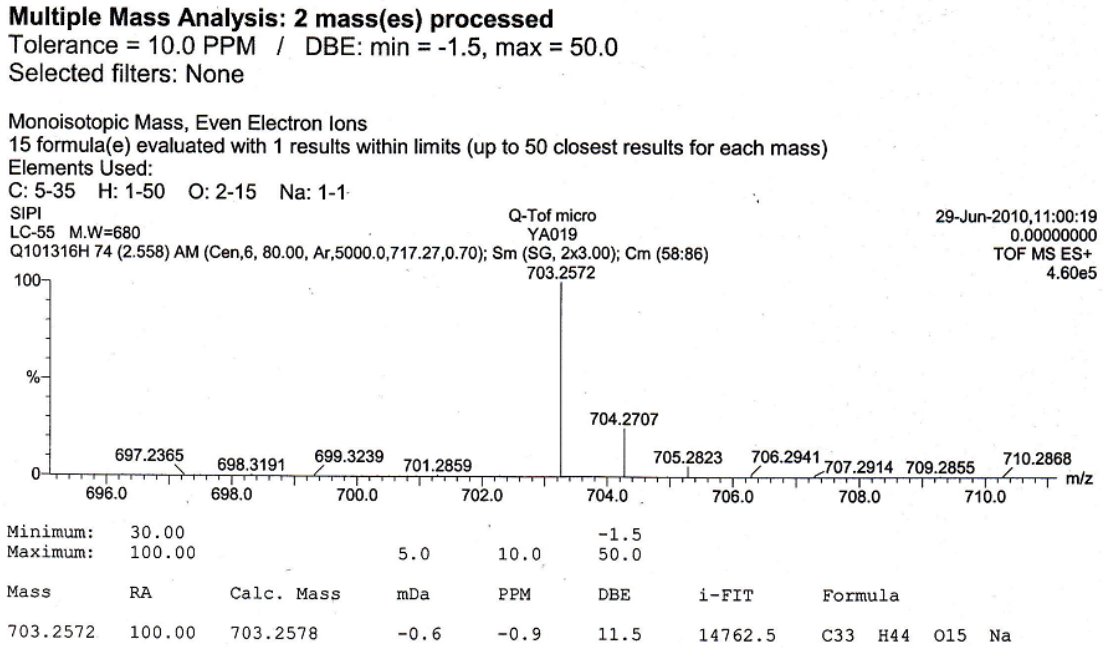

Figure S130. ^{1}H MNR (400 MHz, $CDCl_3$) spectrum of the new compound **17**.

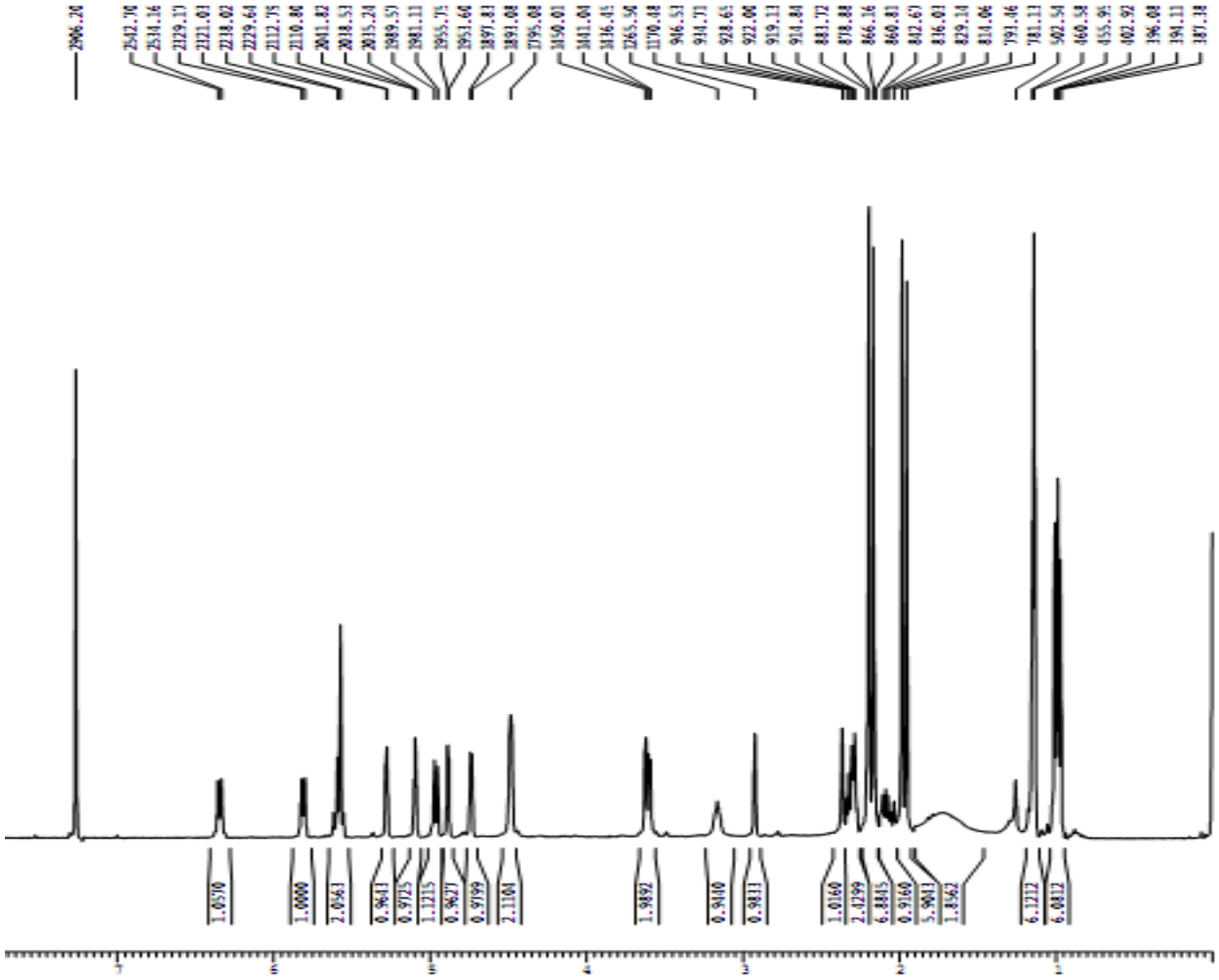

Figure S131. ^{13}C MNR (100 MHz, $CDCl_3$) spectrum of the new compound **17**.

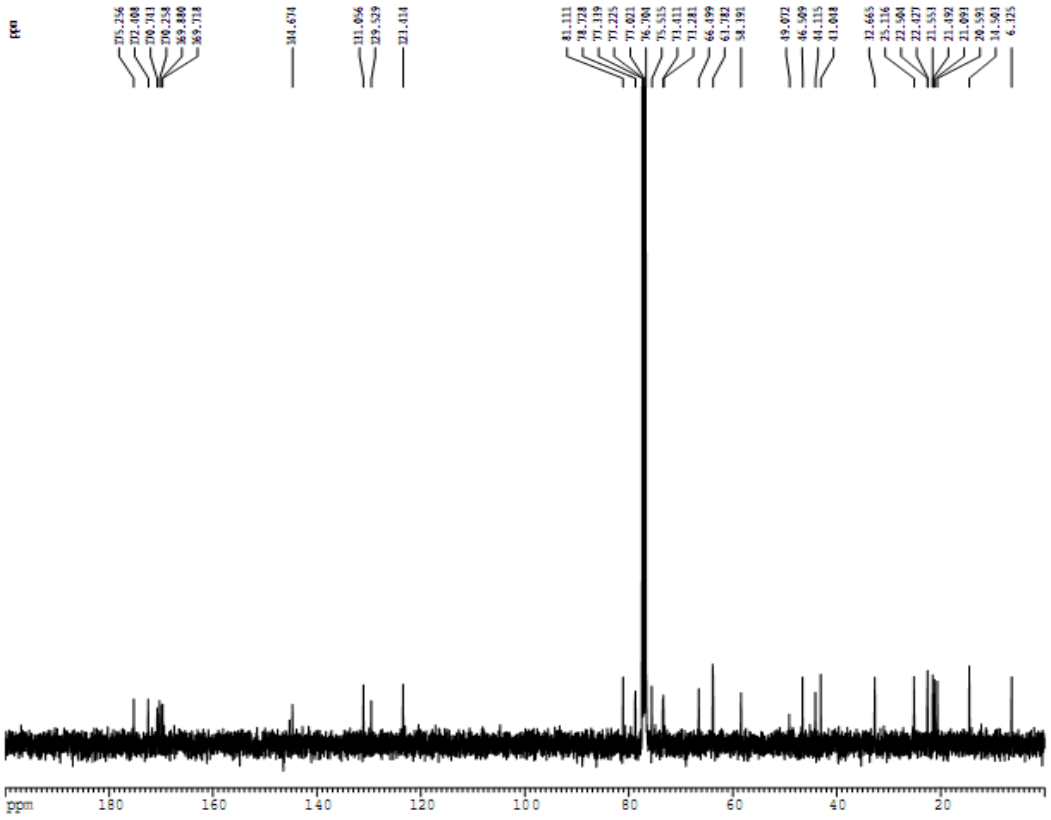

Figure S132. DEPT spectrum of the new compound **17**.

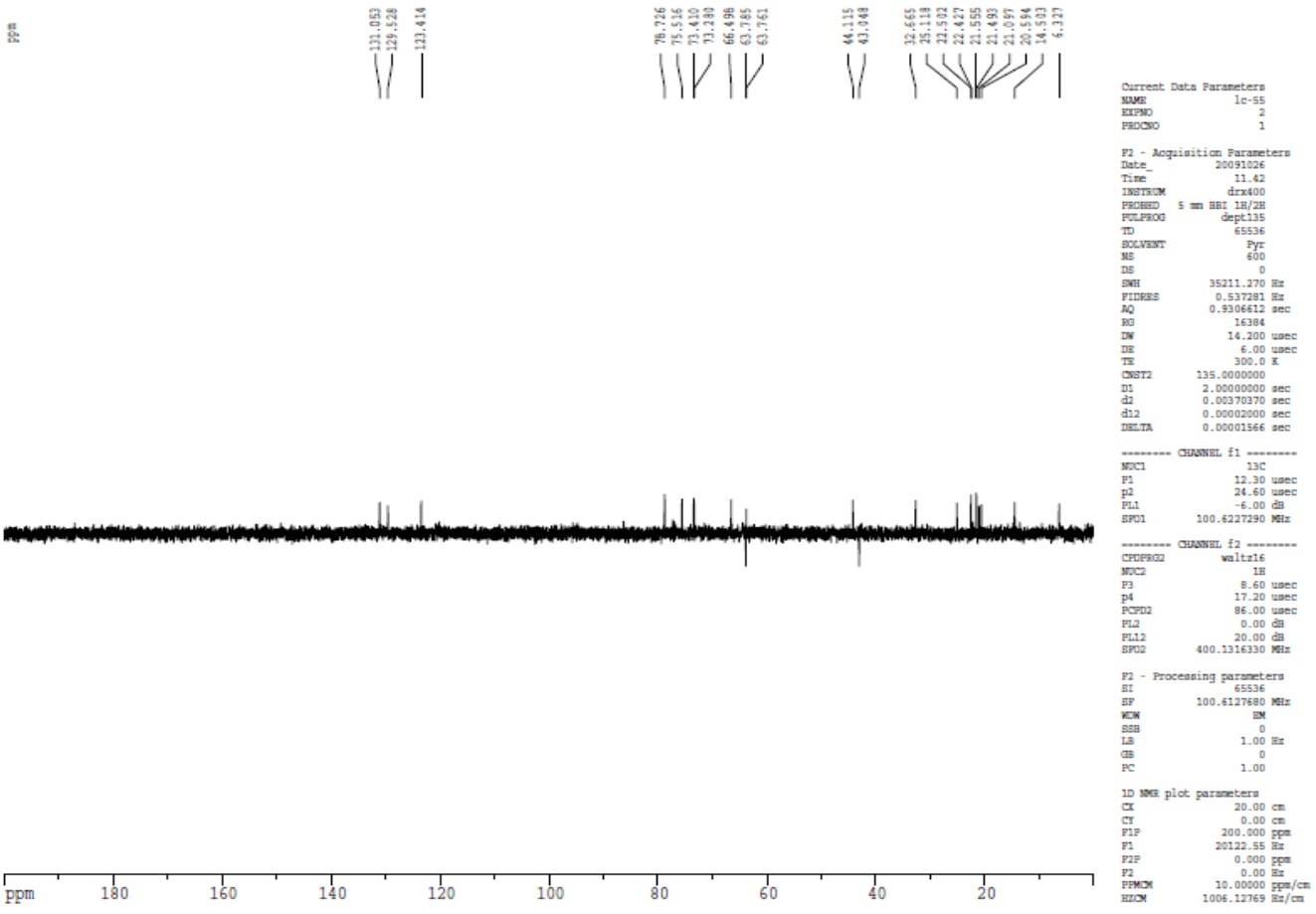

Figure S133. HSQC spectrum of the new compound **17**.

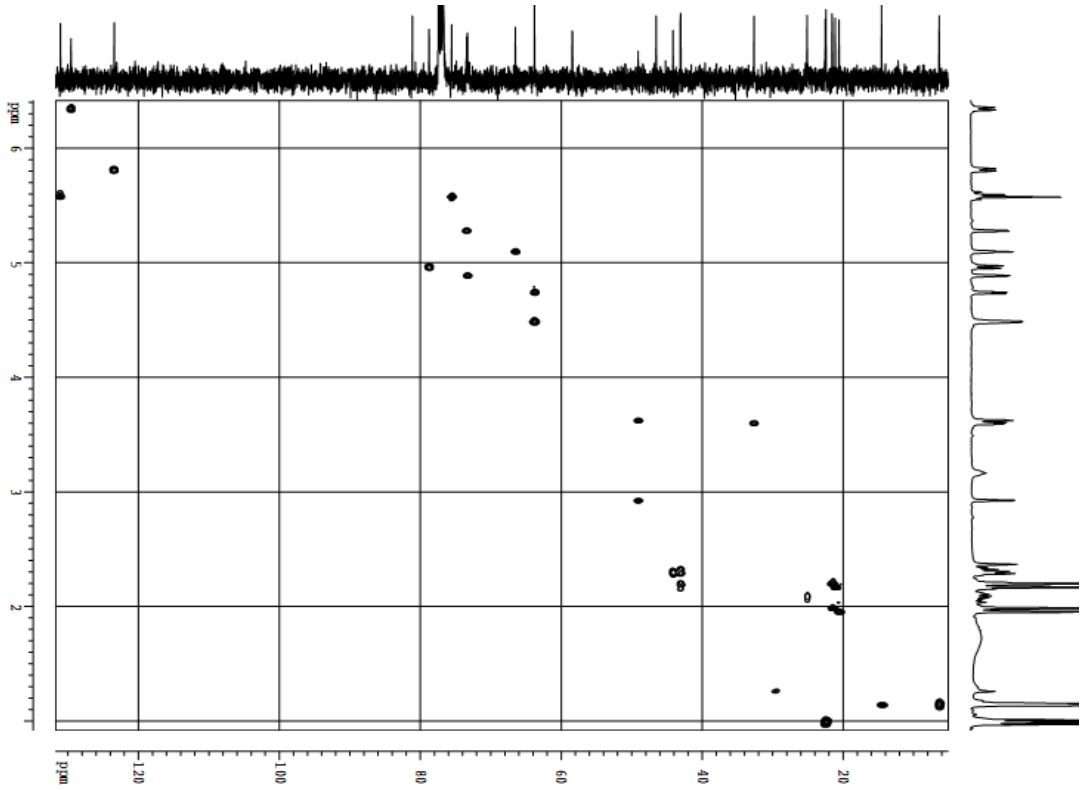

Figure S134. ^{1}H-^{1}H COSY spectrum of the new compound **17**.

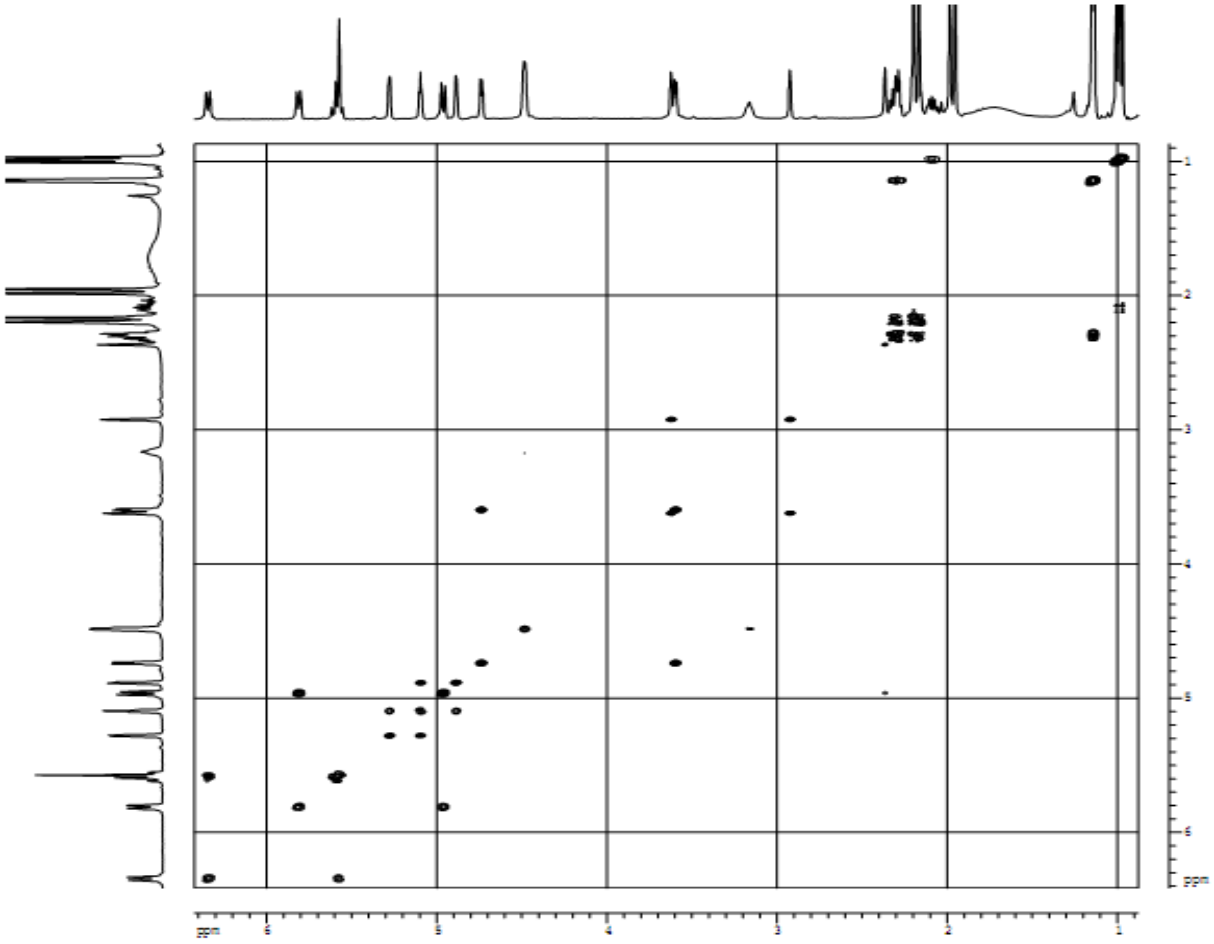

Figure S135. HMBC spectrum of the new compound **17**.

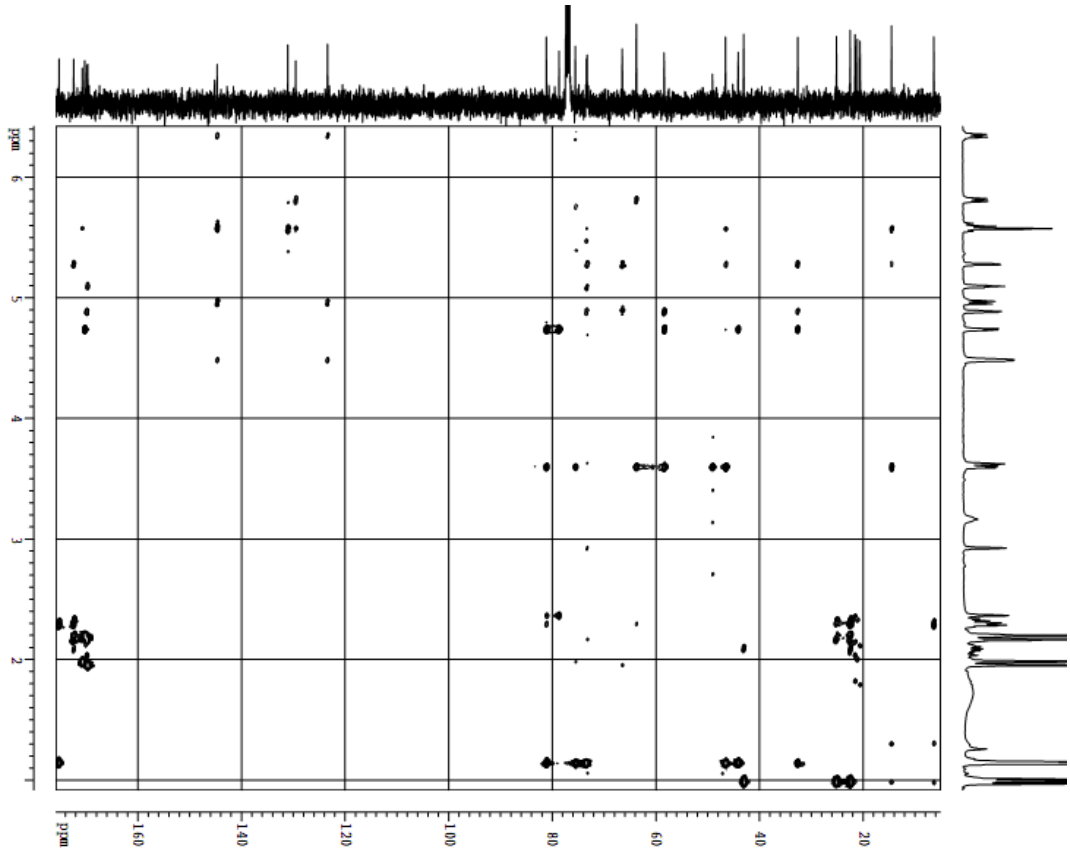

Figure S136. NOESY spectrum of the new compound **17**.

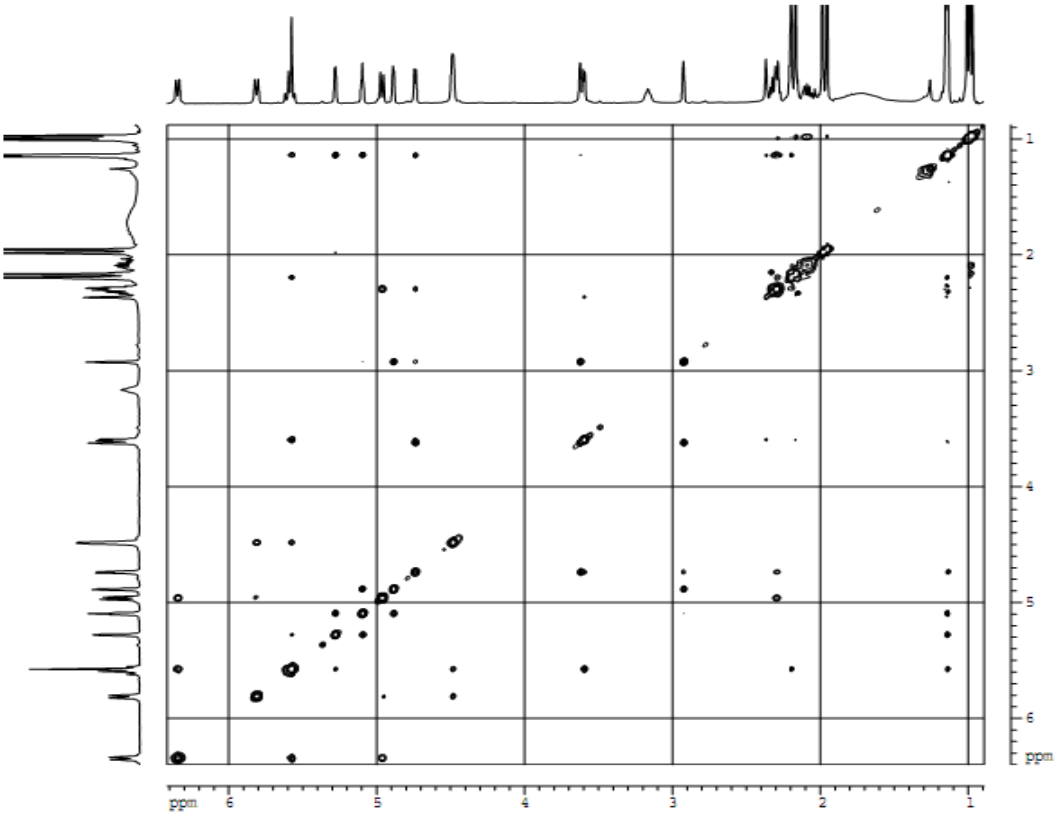

Figure S137. HR-ESIMS spectrum of the new compound **18**.

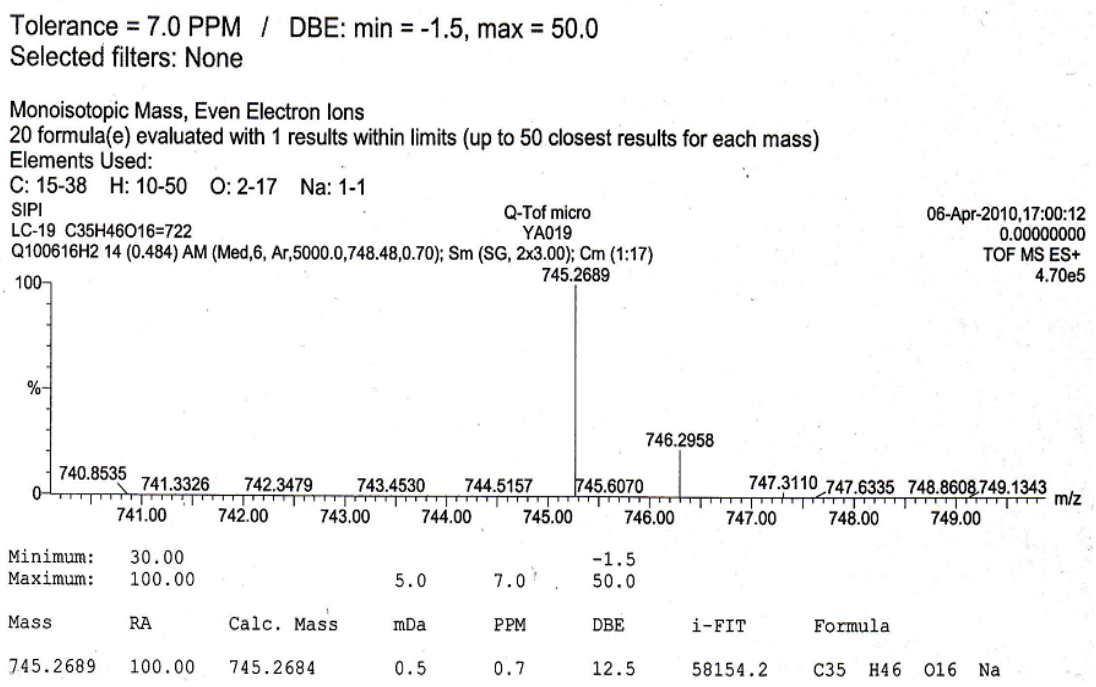

Figure S138. ^{1}H NMR spectrum of the new compound **18**.

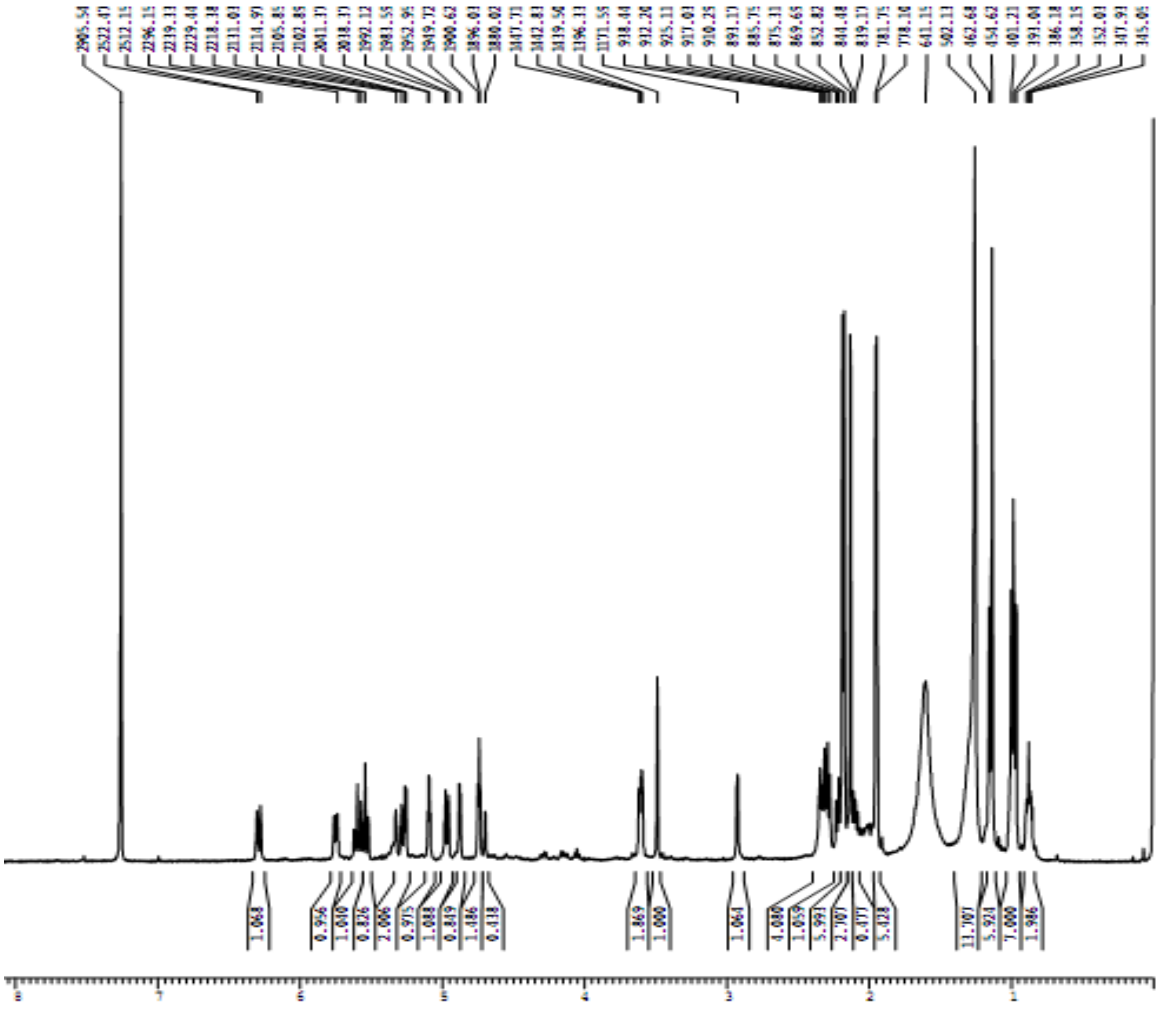

Figure S139. ^{13}C NMR spectrum of the new compound **18**.

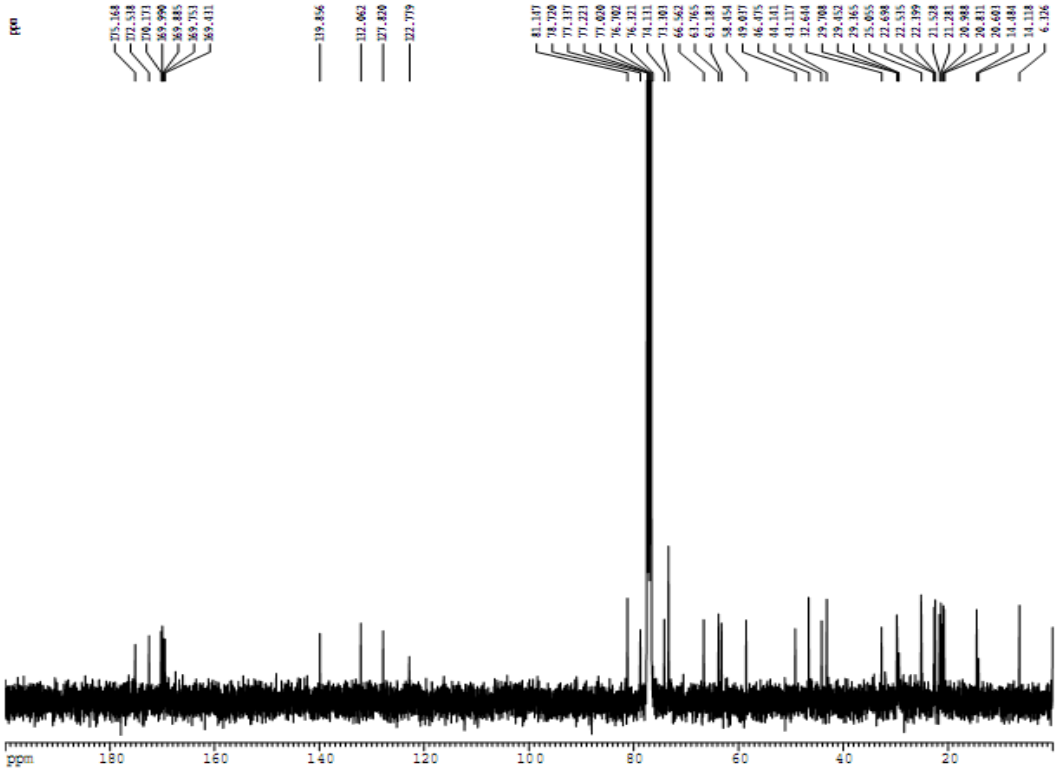

Figure S140. DEPT spectrum of the new compound **18**.

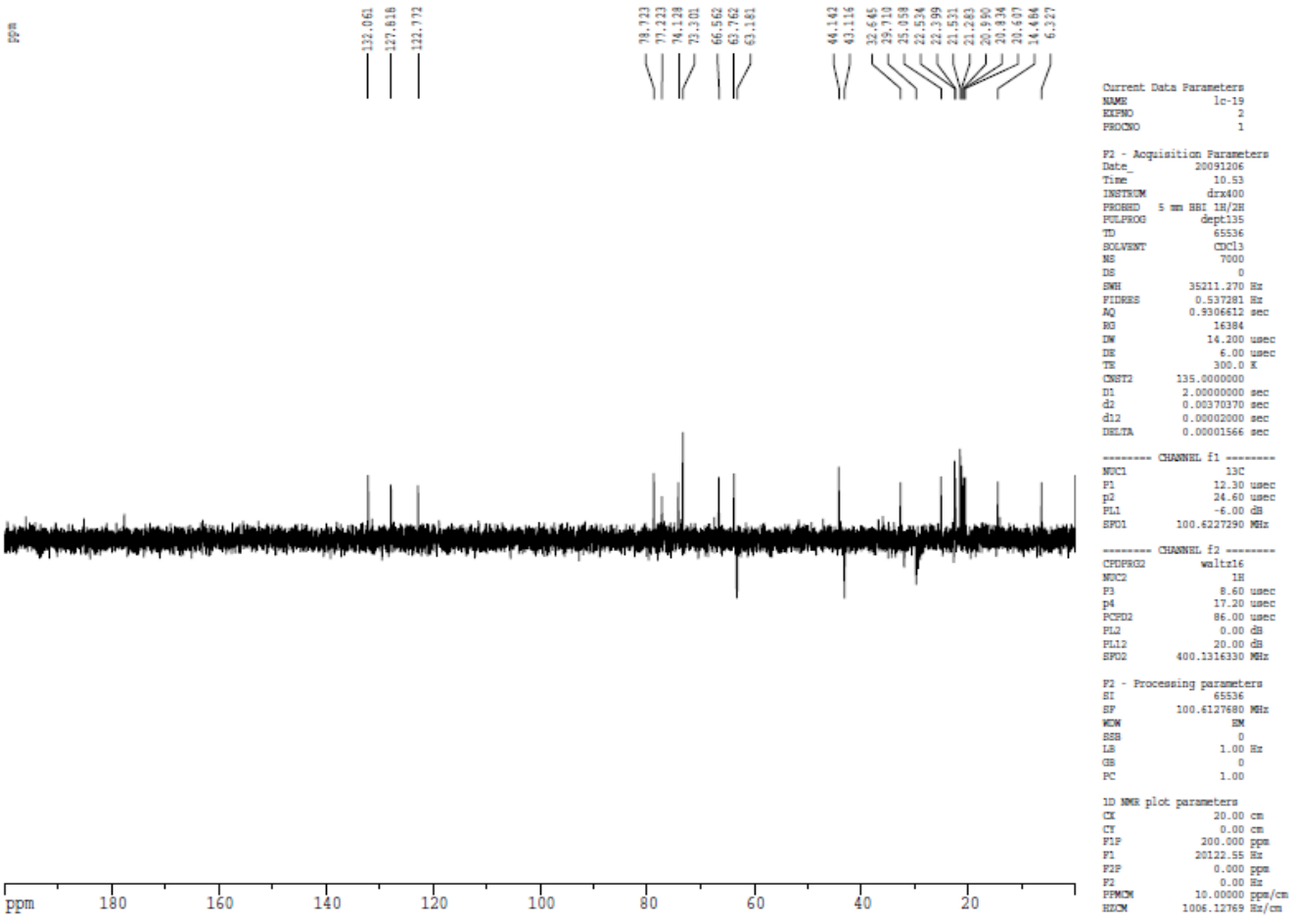

Figure S141. HSQC spectrum of the new compound **18**.

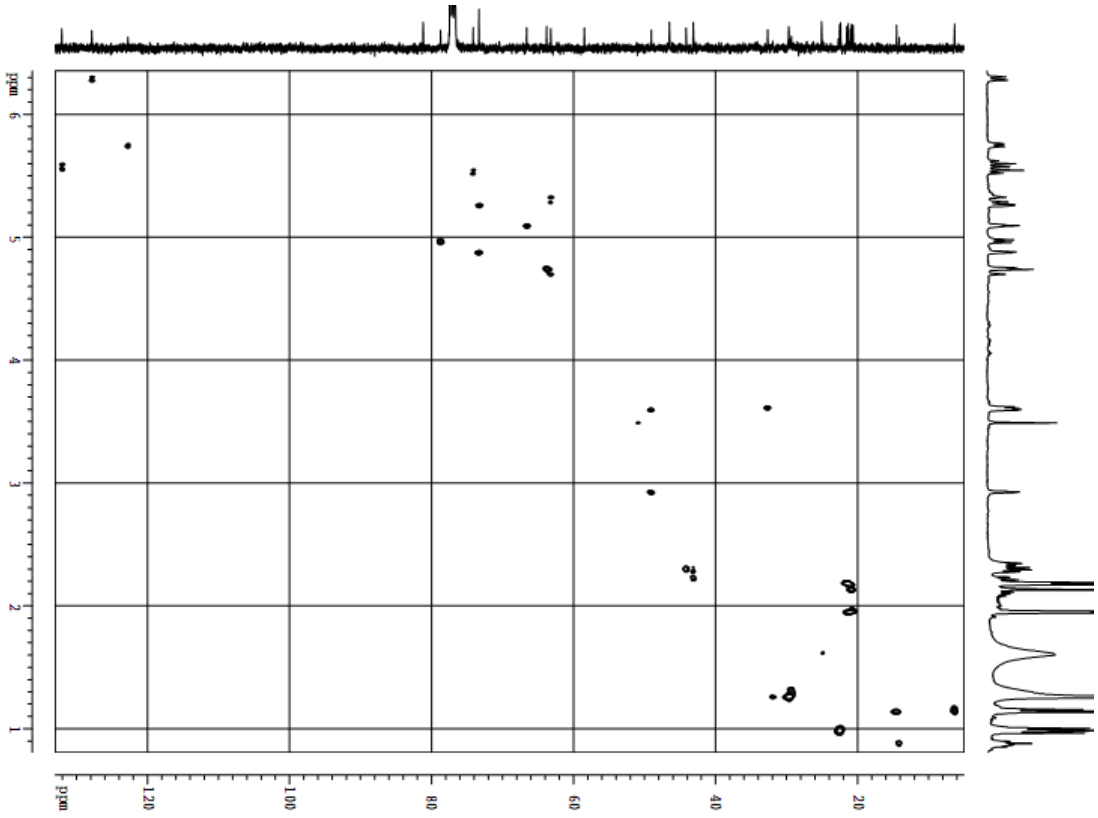

Figure S142. ^{1}H-^{1}H COSY spectrum of the new compound **18**.

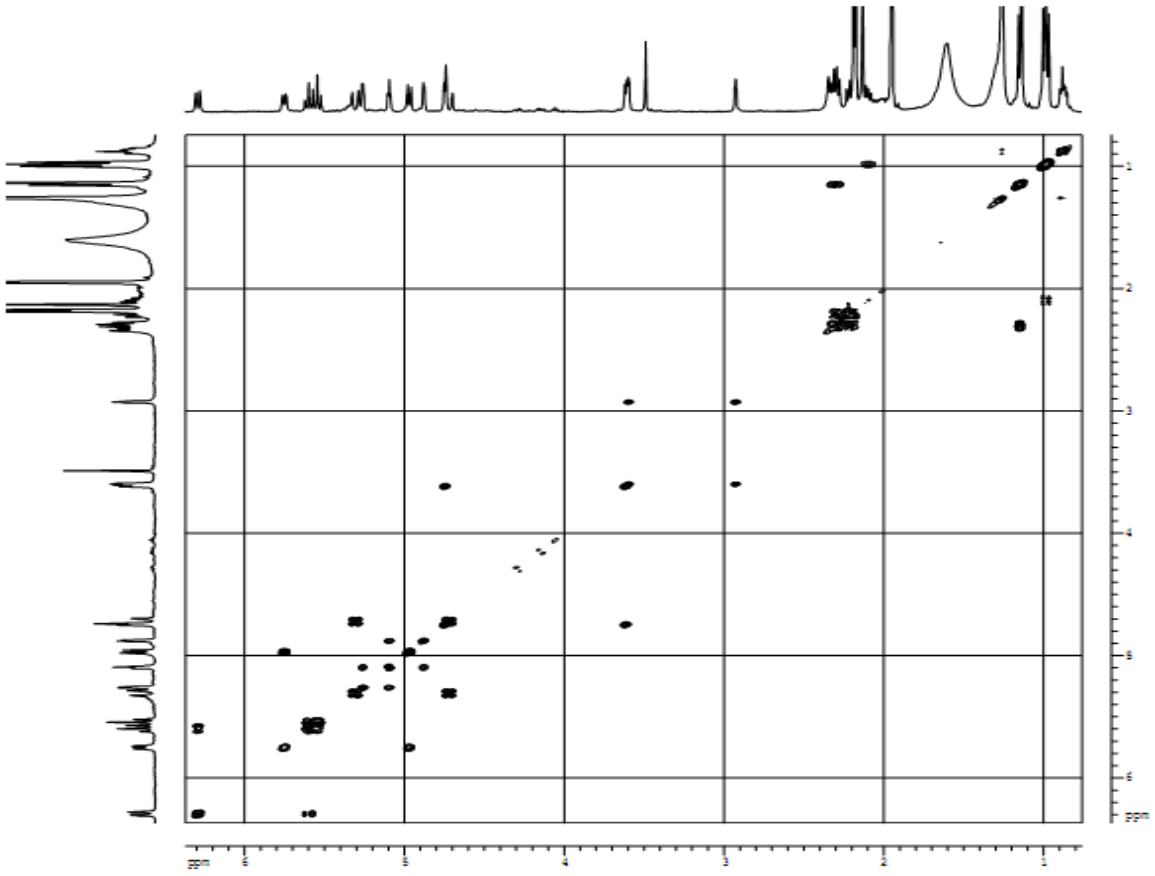

Figure S143. HMBC spectrum of the new compound **18**.

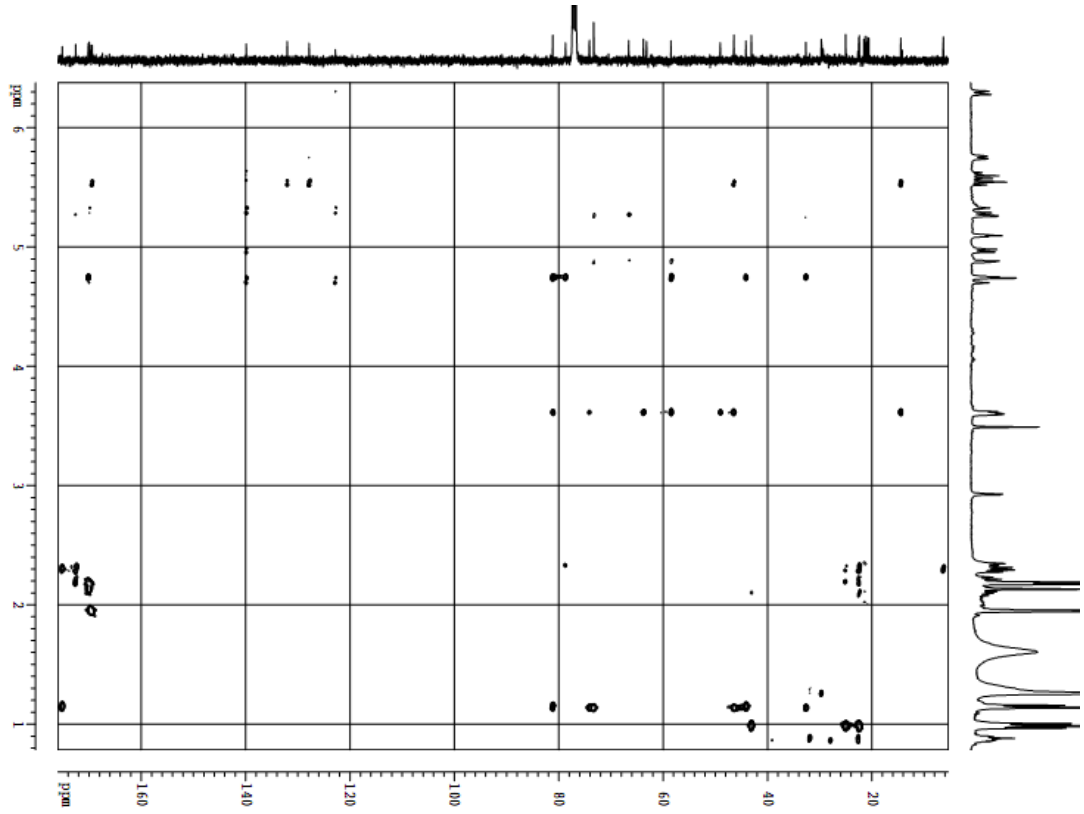

Figure S144. NOESY spectrum of the new compound **18**.