

# Calyciphyllines A and B, Two Novel Hexacyclic Alkaloids from *Daphniphyllum calycinum*

Hiroshi Morita and Jun'ichi Kobayashi\*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

## Supporting Information

- Figure S1.  $^1\text{H}$  NMR spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S2.  $^{13}\text{C}$  NMR spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S3.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S4. HOHAHA spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S5. NOESY spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S6. HMQC spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S7. HMBC spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .
- Figure S8.  $^1\text{H}$  NMR spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S9.  $^{13}\text{C}$  NMR spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S10.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S11. HOHAHA spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S12. NOESY spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S13. HMQC spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .
- Figure S14. HMBC spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

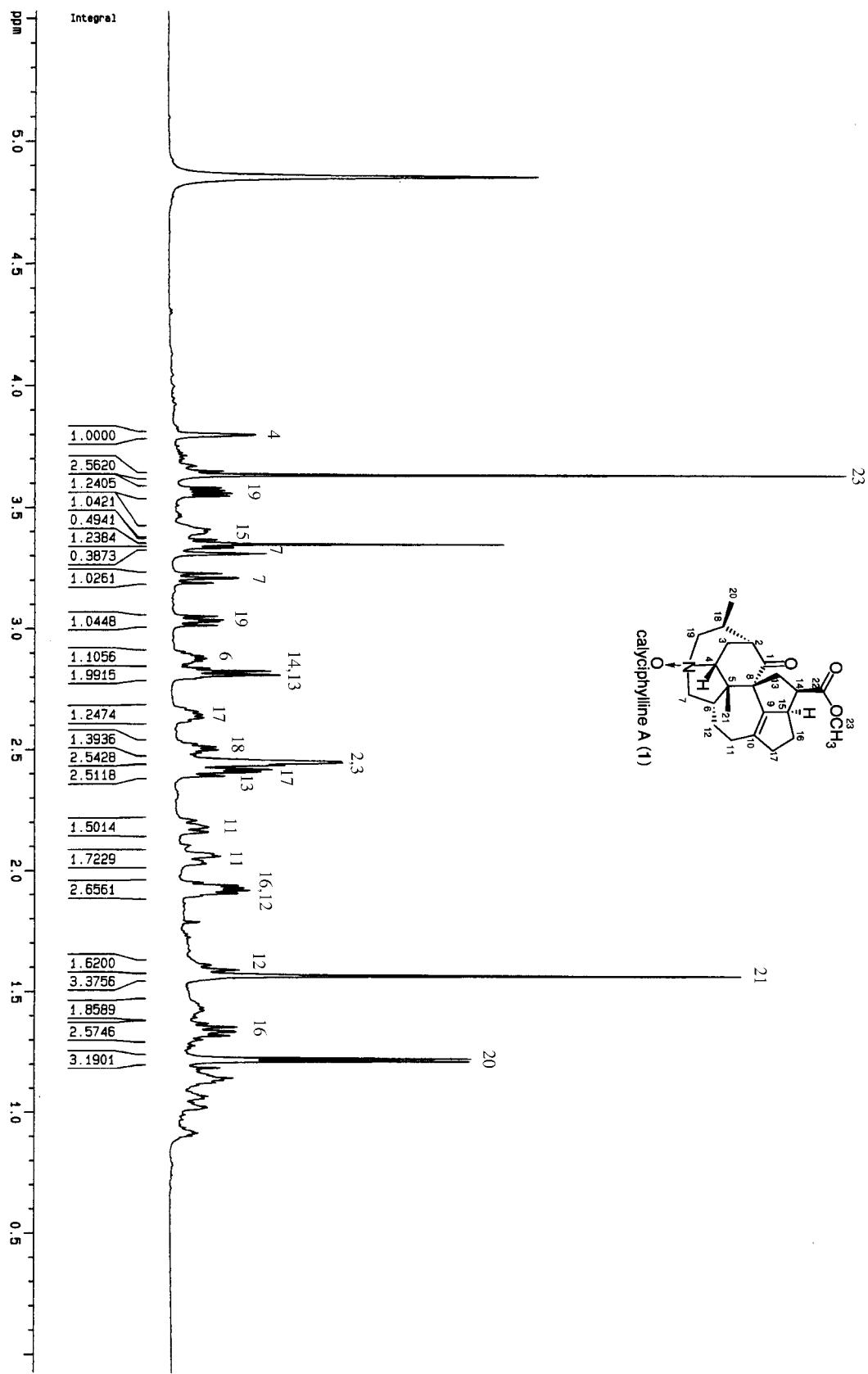


Figure S1.  $^1\text{H}$  NMR spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

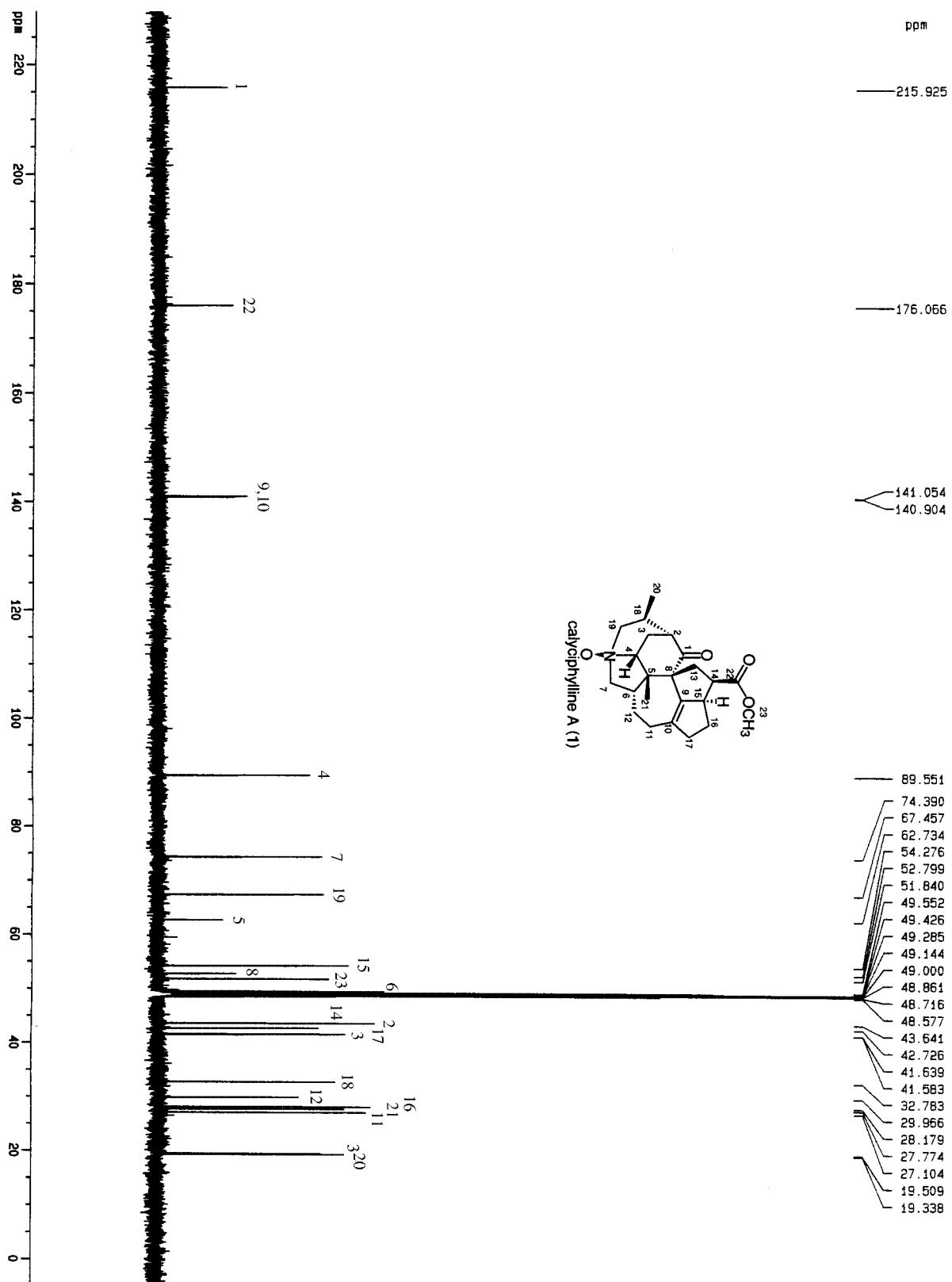


Figure S2.  $^{13}\text{C}$  NMR spectrum of calyciphylline A (1) in  $\text{CD}_3\text{OD}$ .

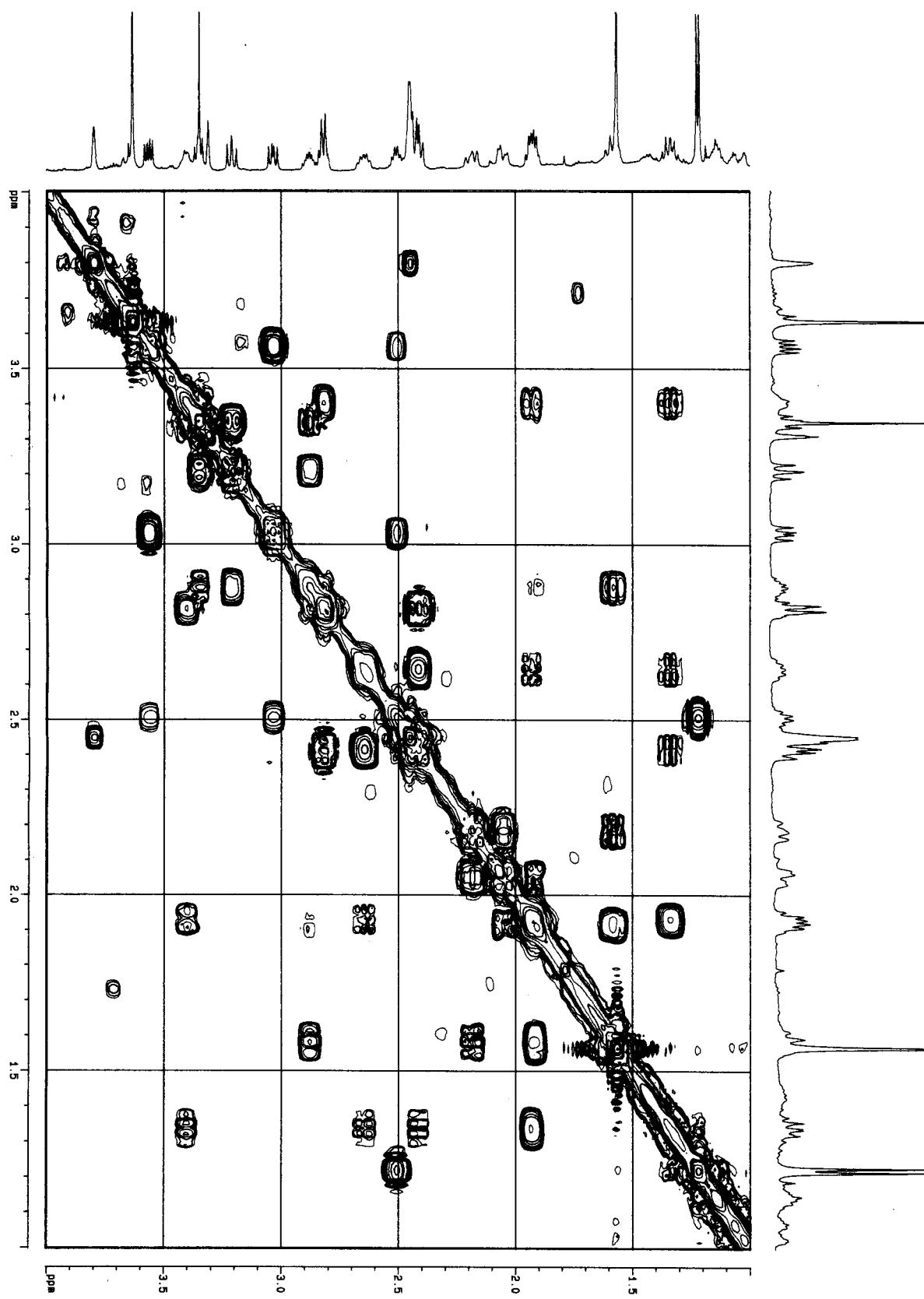


Figure S3.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

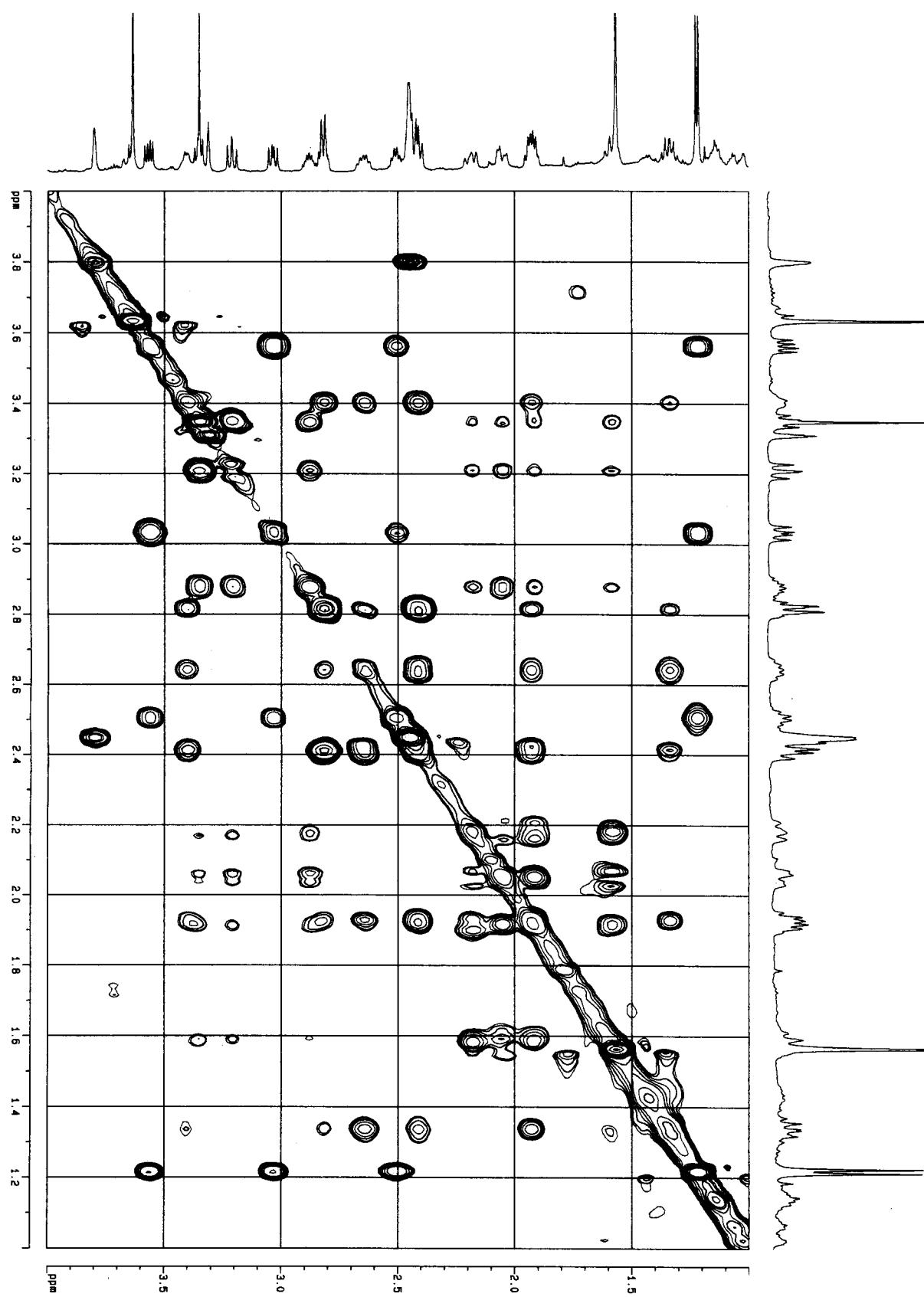


Figure S4. HOHAHA spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

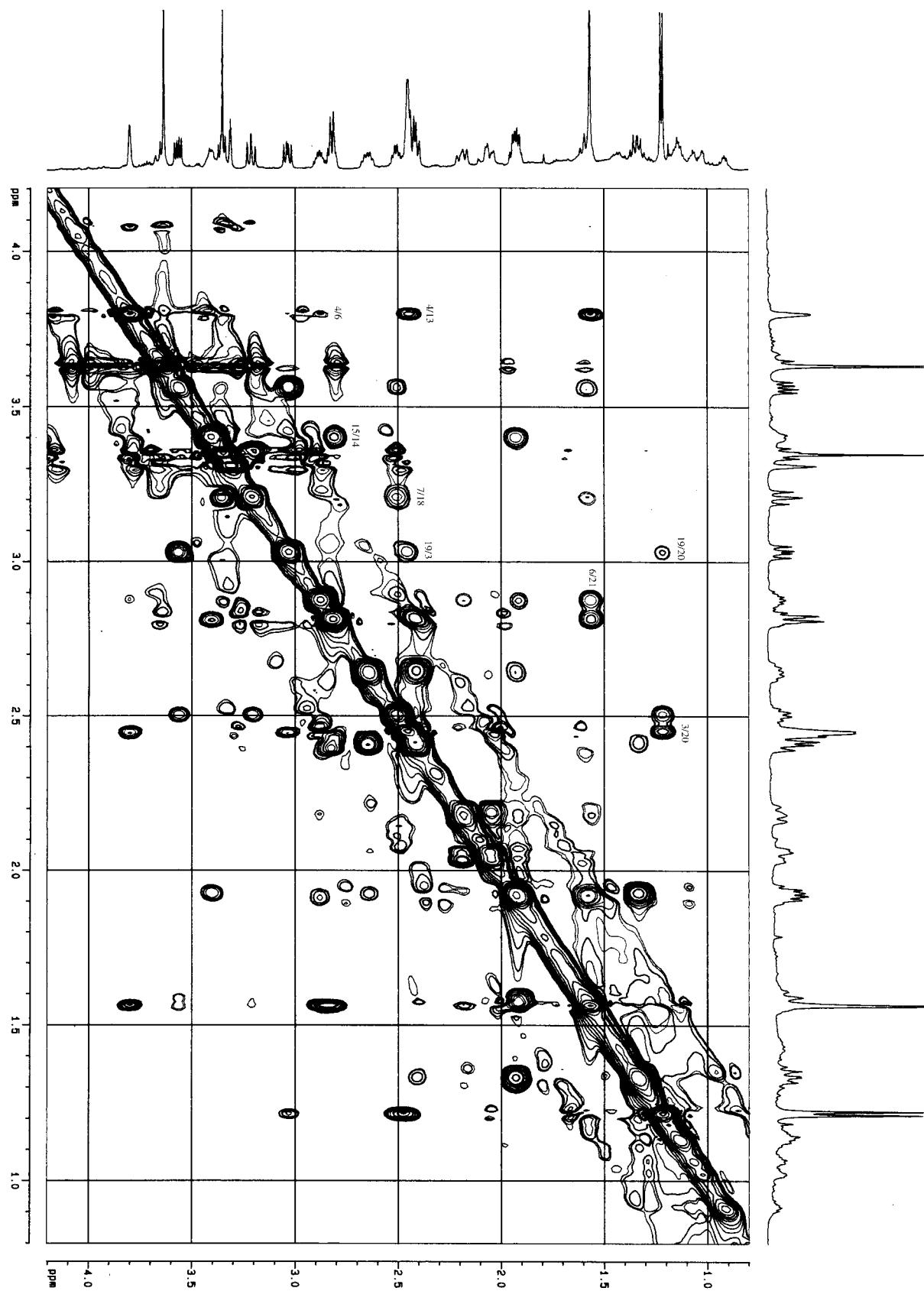


Figure S5. NOESY spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

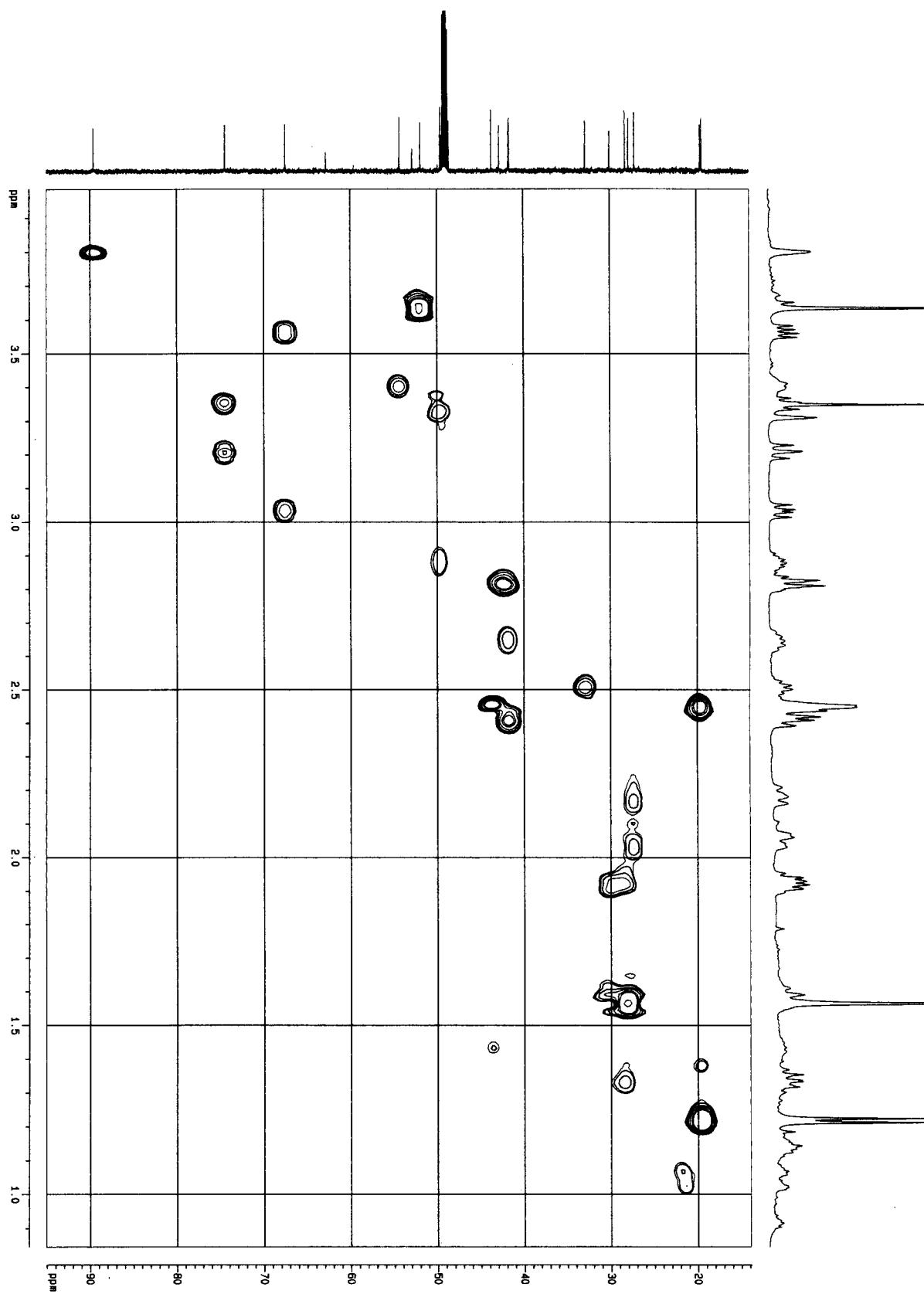


Figure S6. HMQC spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

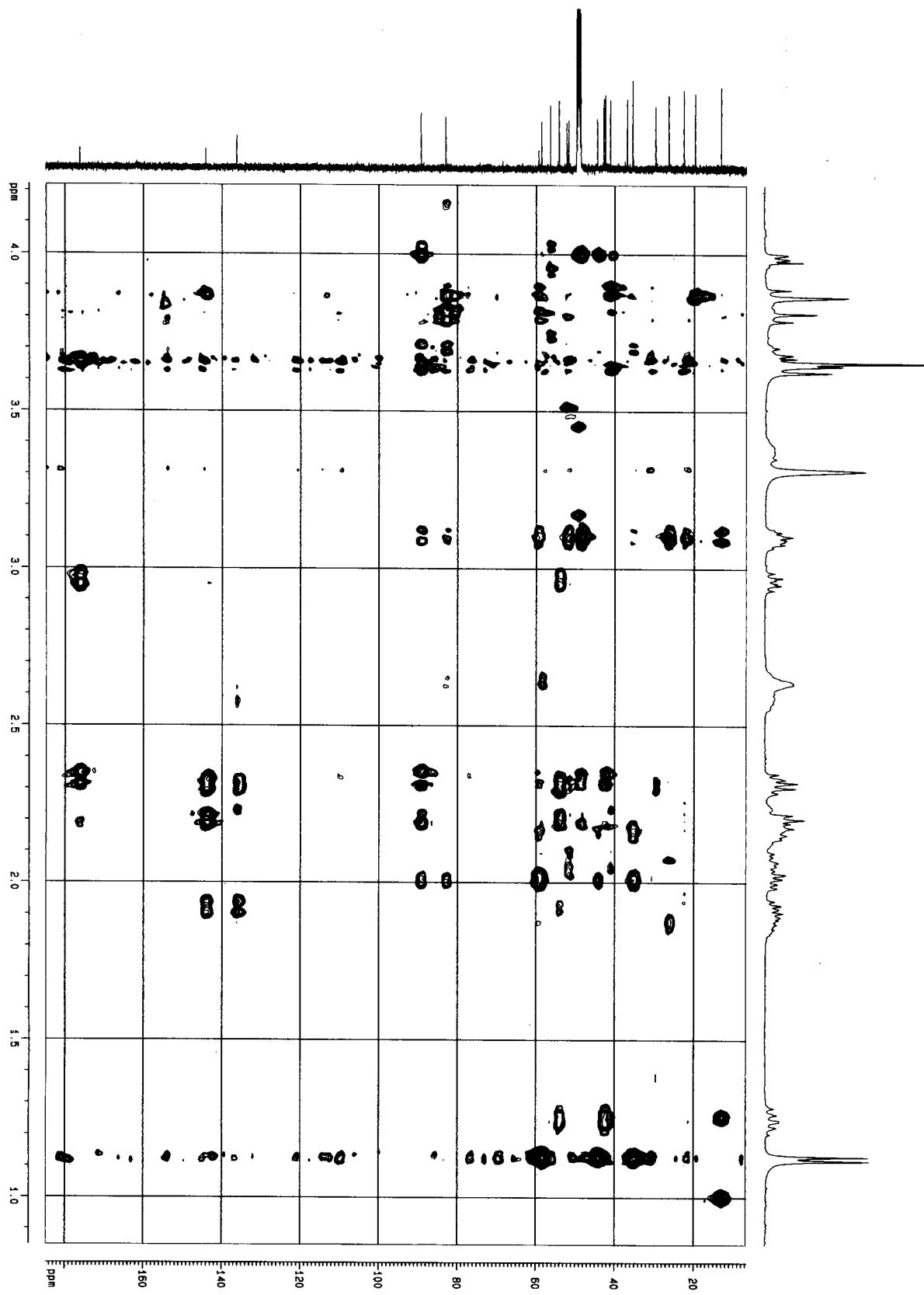


Figure S7. HMBC spectrum of calyciphylline A (**1**) in  $\text{CD}_3\text{OD}$ .

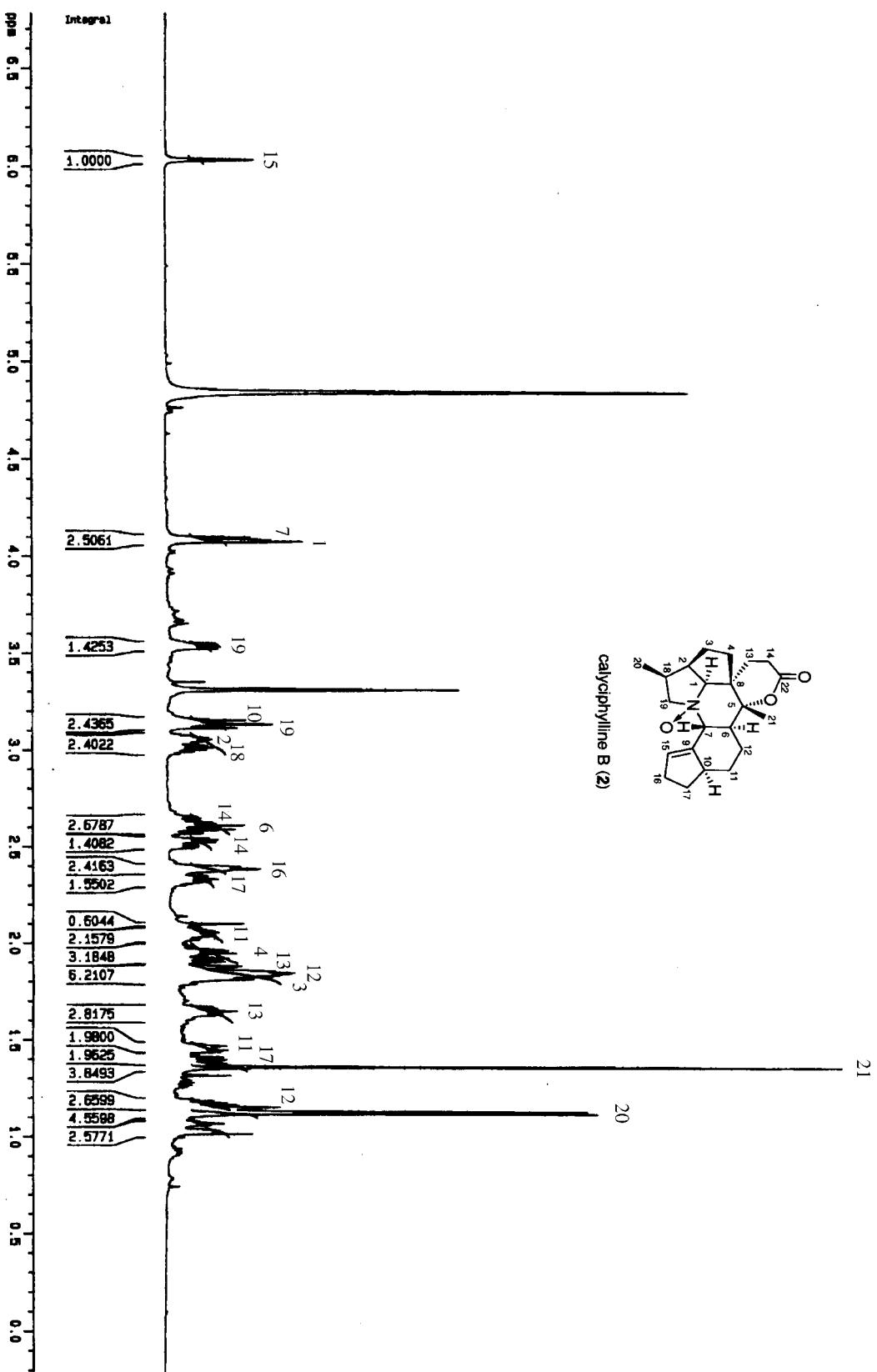


Figure S8.  $^1\text{H}$  NMR spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

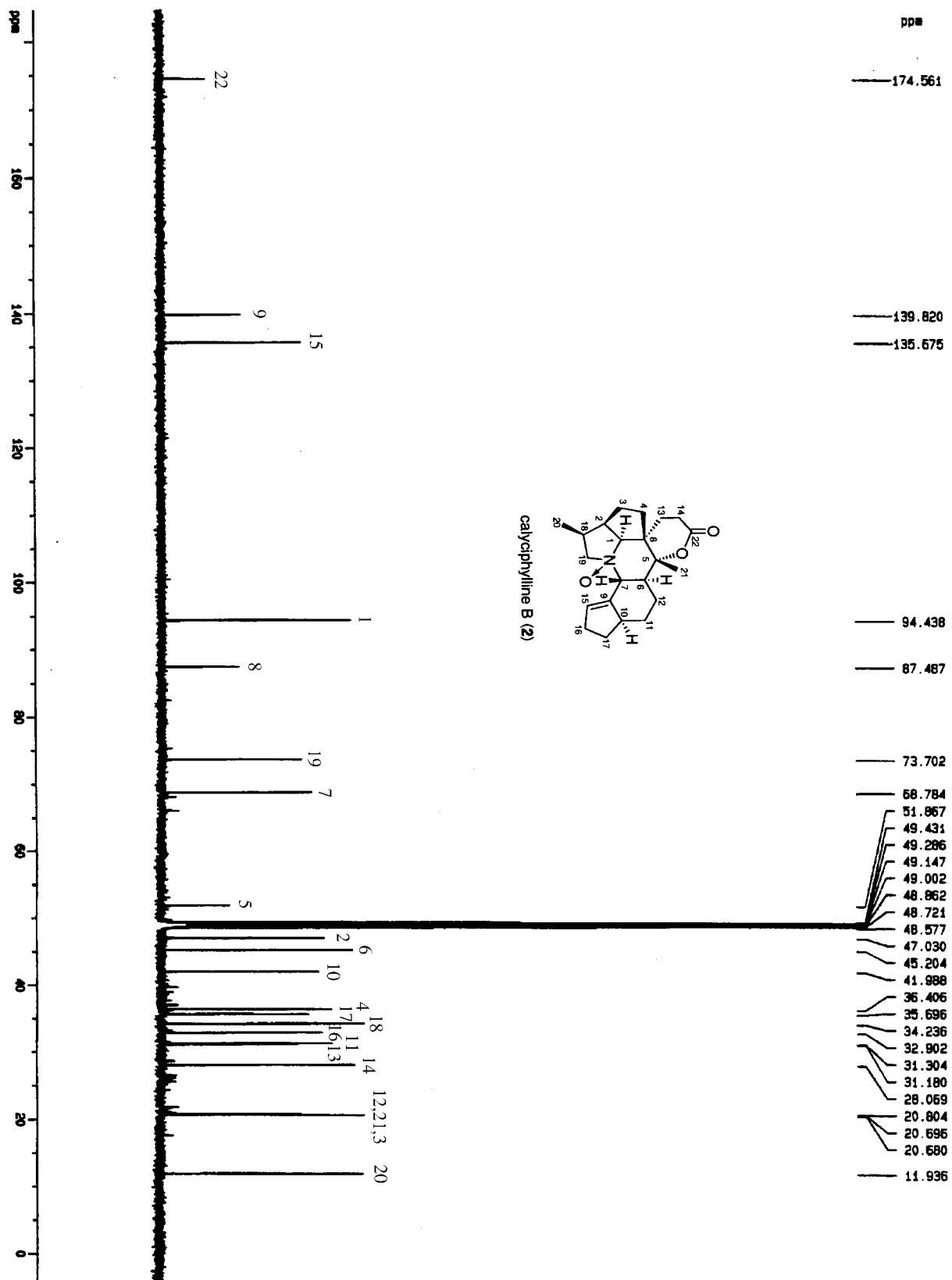


Figure S9. <sup>13</sup>C NMR spectrum of calyciphylline B (2) in CD<sub>3</sub>OD.

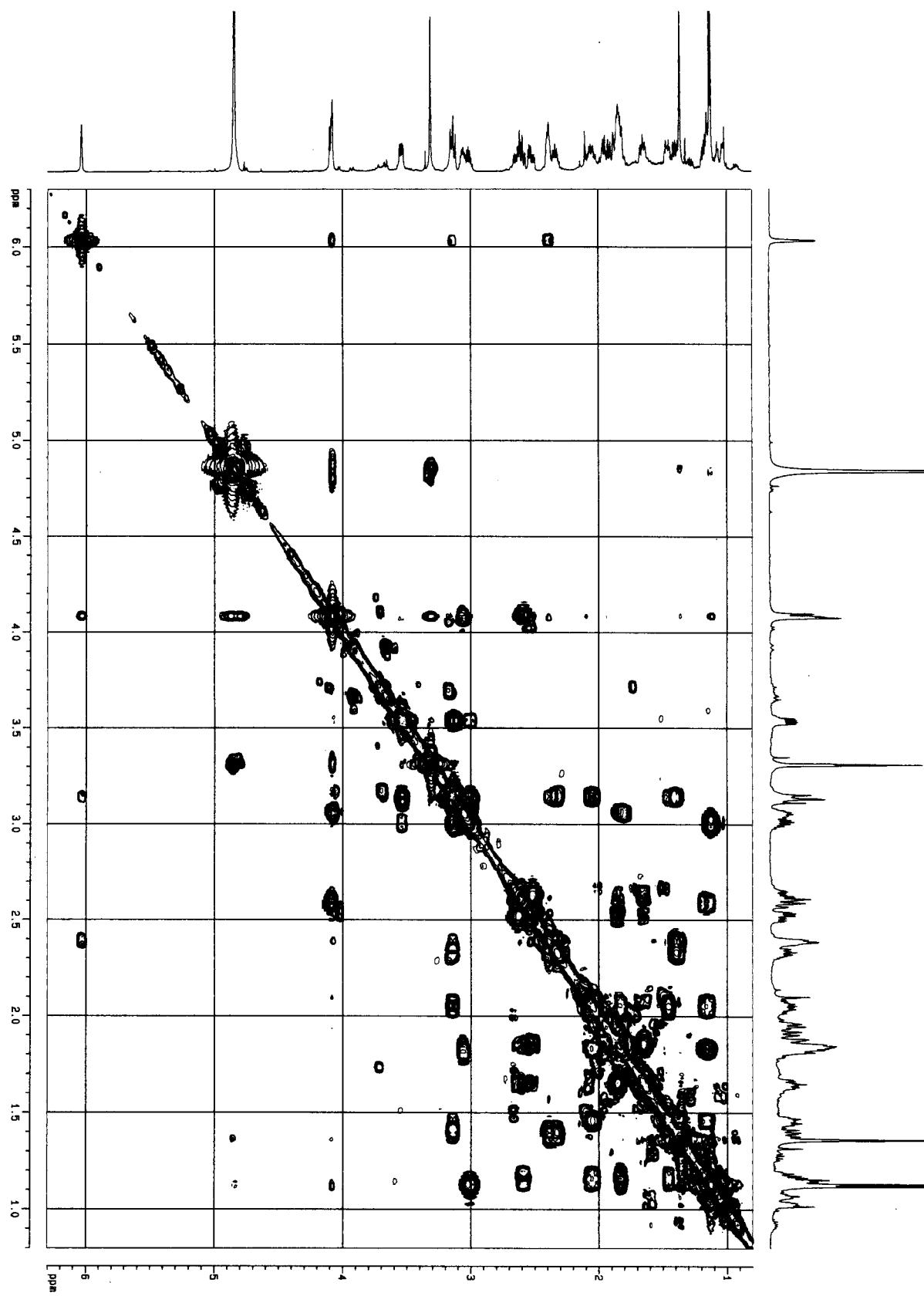


Figure S10.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

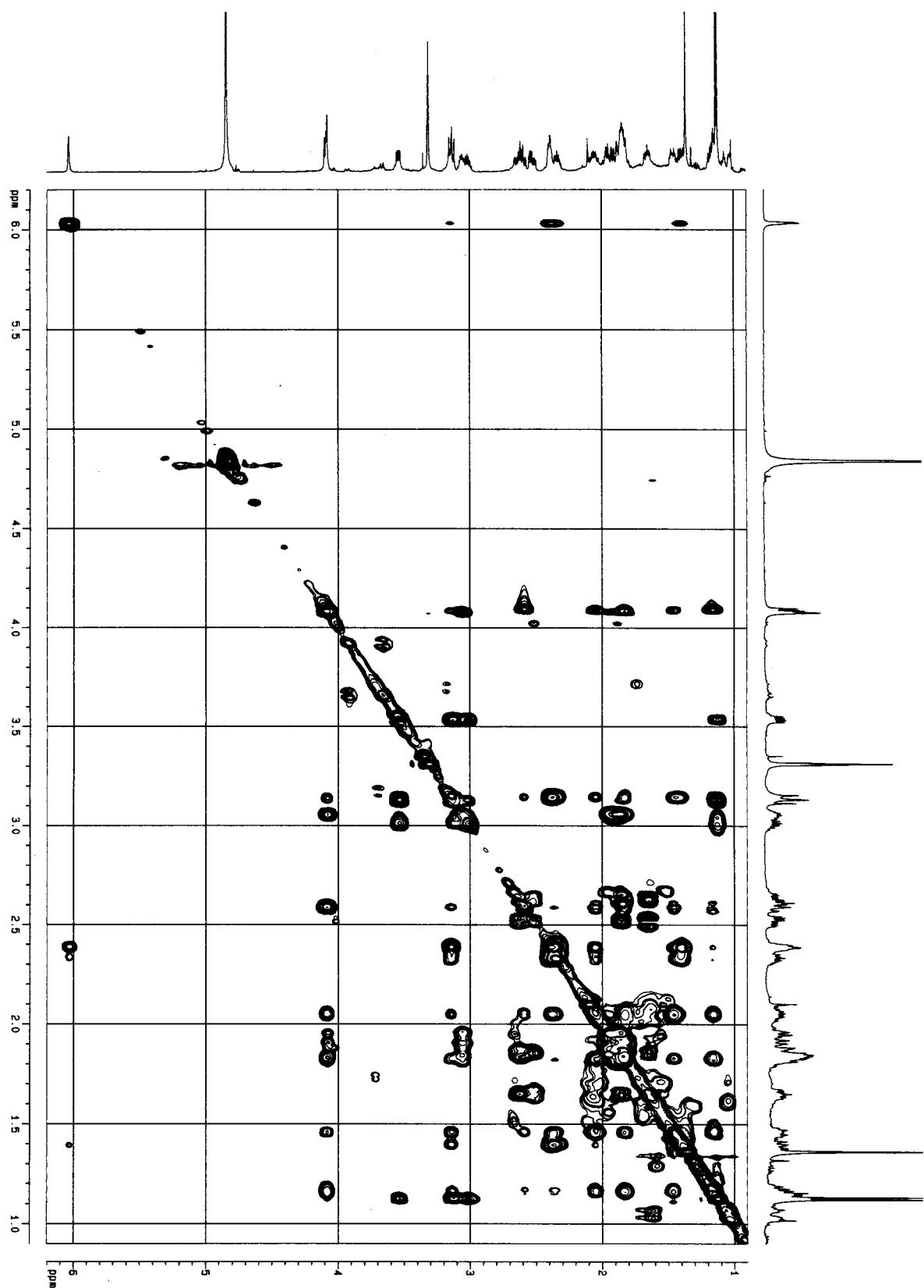


Figure S11. HOHAHA spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

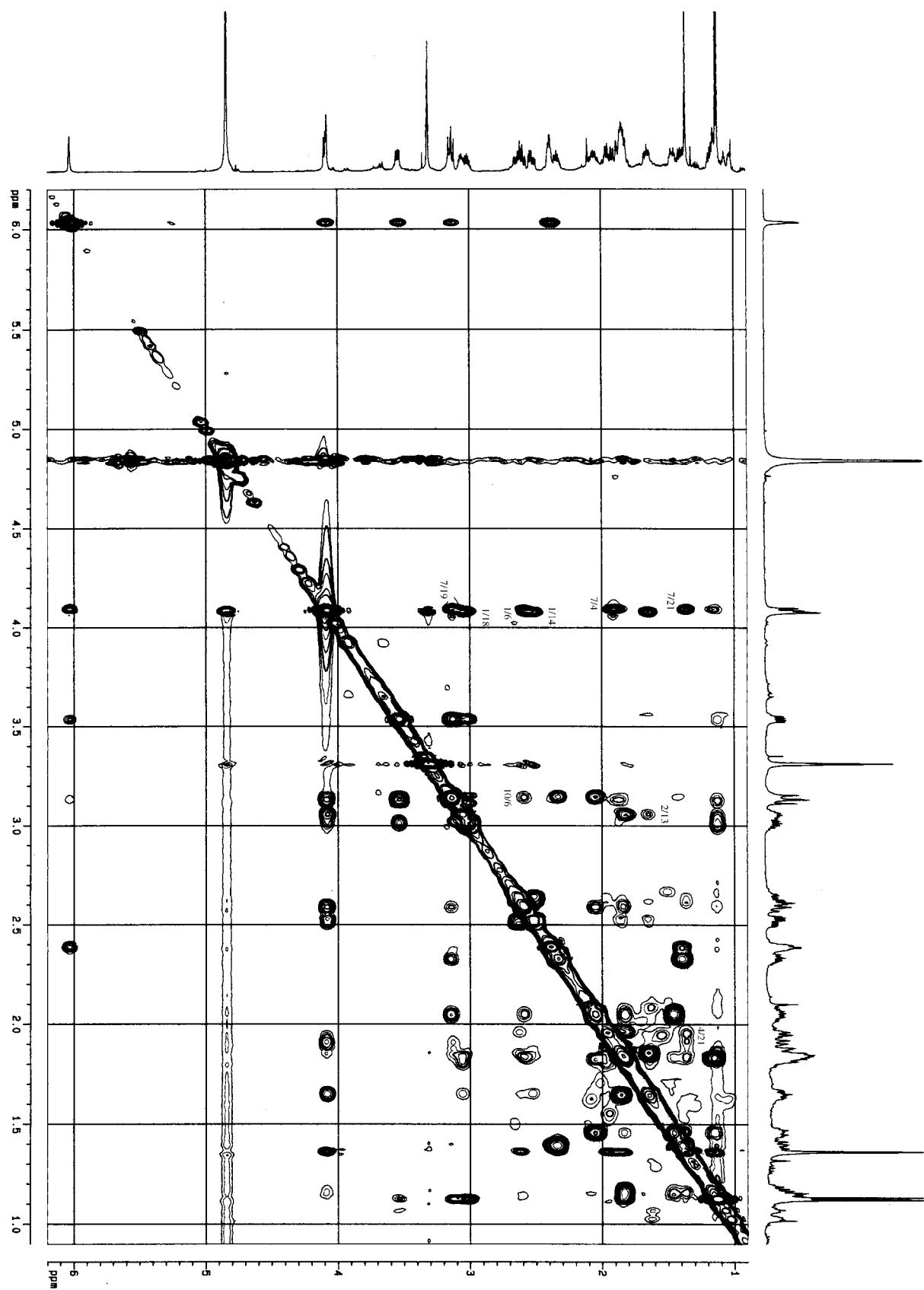


Figure S12. NOESY spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

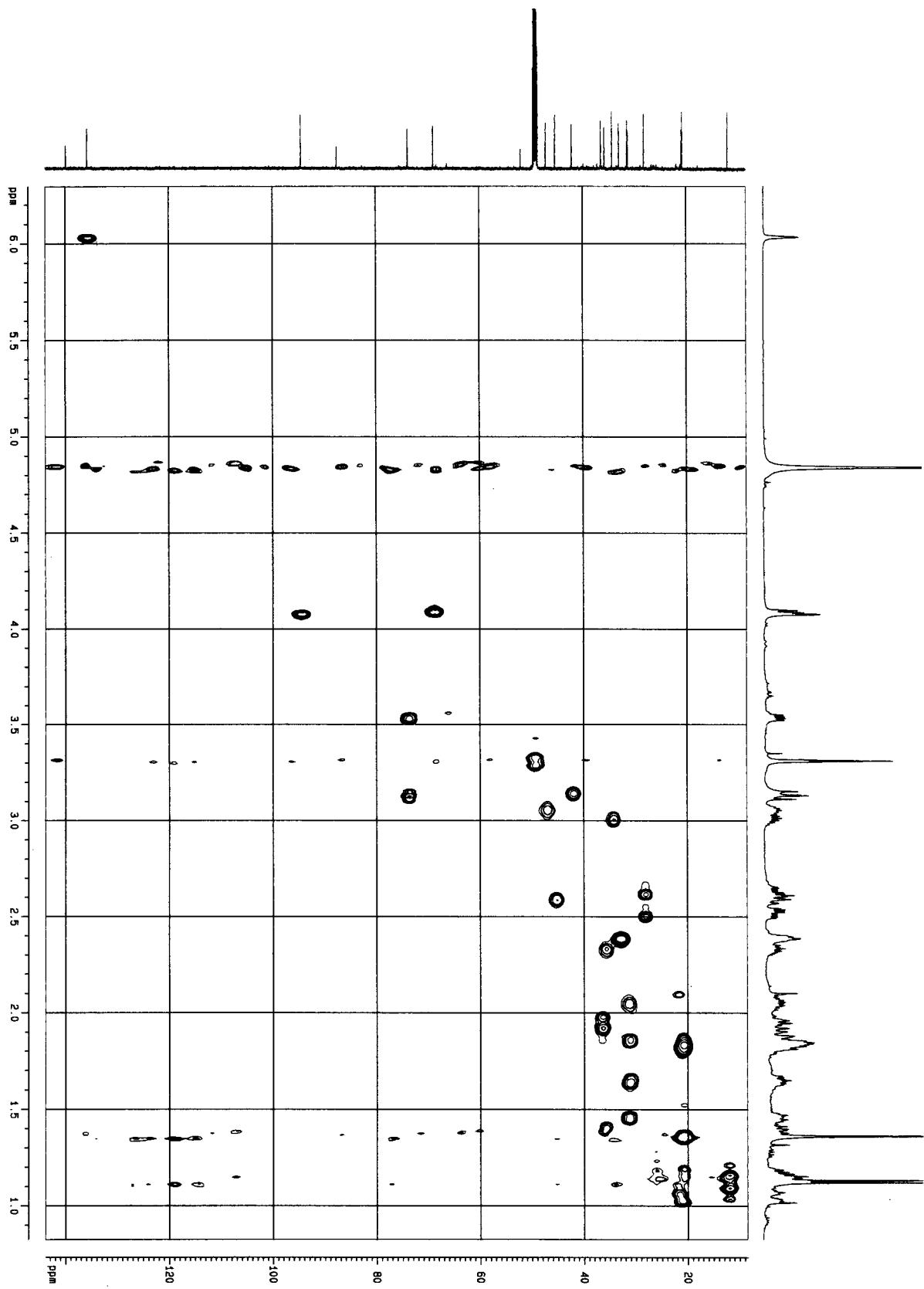


Figure S13. HMQC spectrum of calyciphylline B (**2**) in  $\text{CD}_3\text{OD}$ .

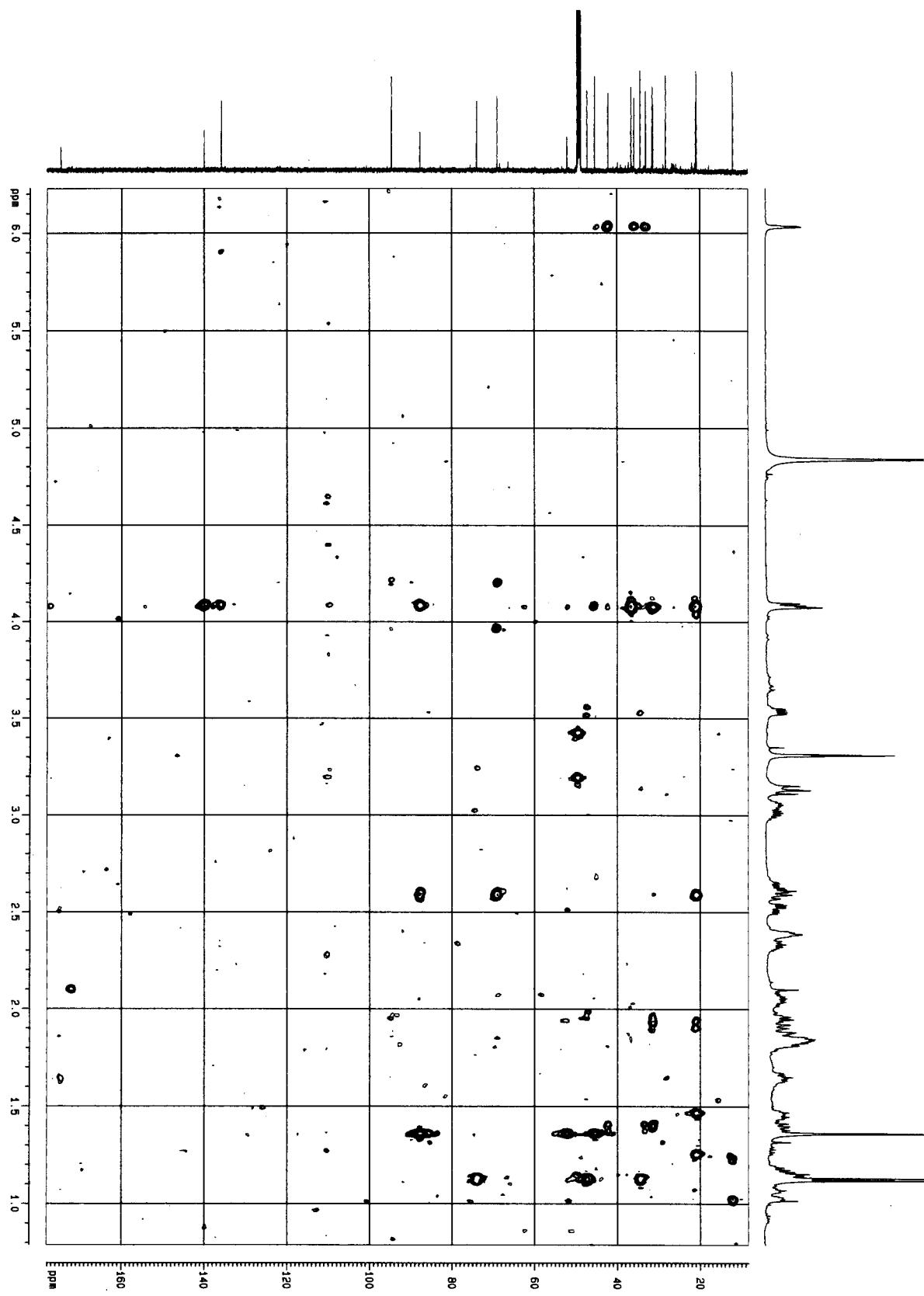


Figure S14. HMBC spectrum of calyciphylline B (2) in  $\text{CD}_3\text{OD}$ .