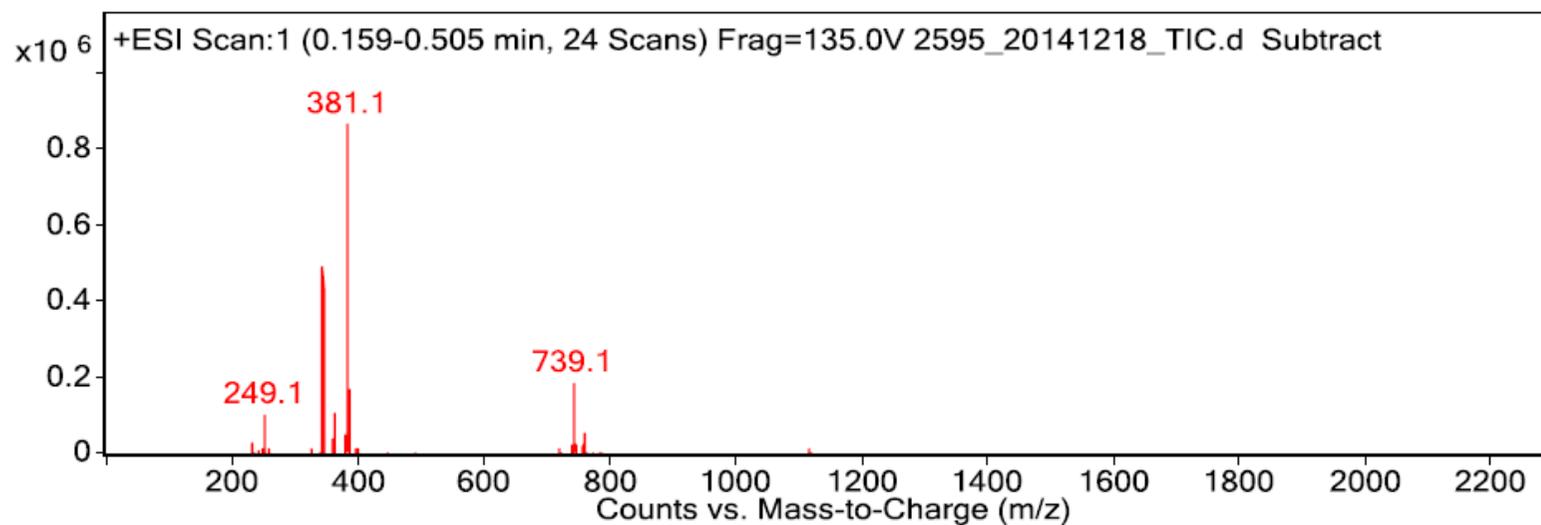


Compound 5



Peak List

<i>m/z</i>	<i>z</i>	Abund
249.1		104946.4
341.1	1	494078.5
342.1	1	108131.1
359.1		109946.5
379		68316.6
381.1	1	870123.6
382.1	1	173339.7
739.1	1	188025.3
740.1	1	91163.2
755		58995.4

Figure S1. ESI-MS spectrum of compound 5

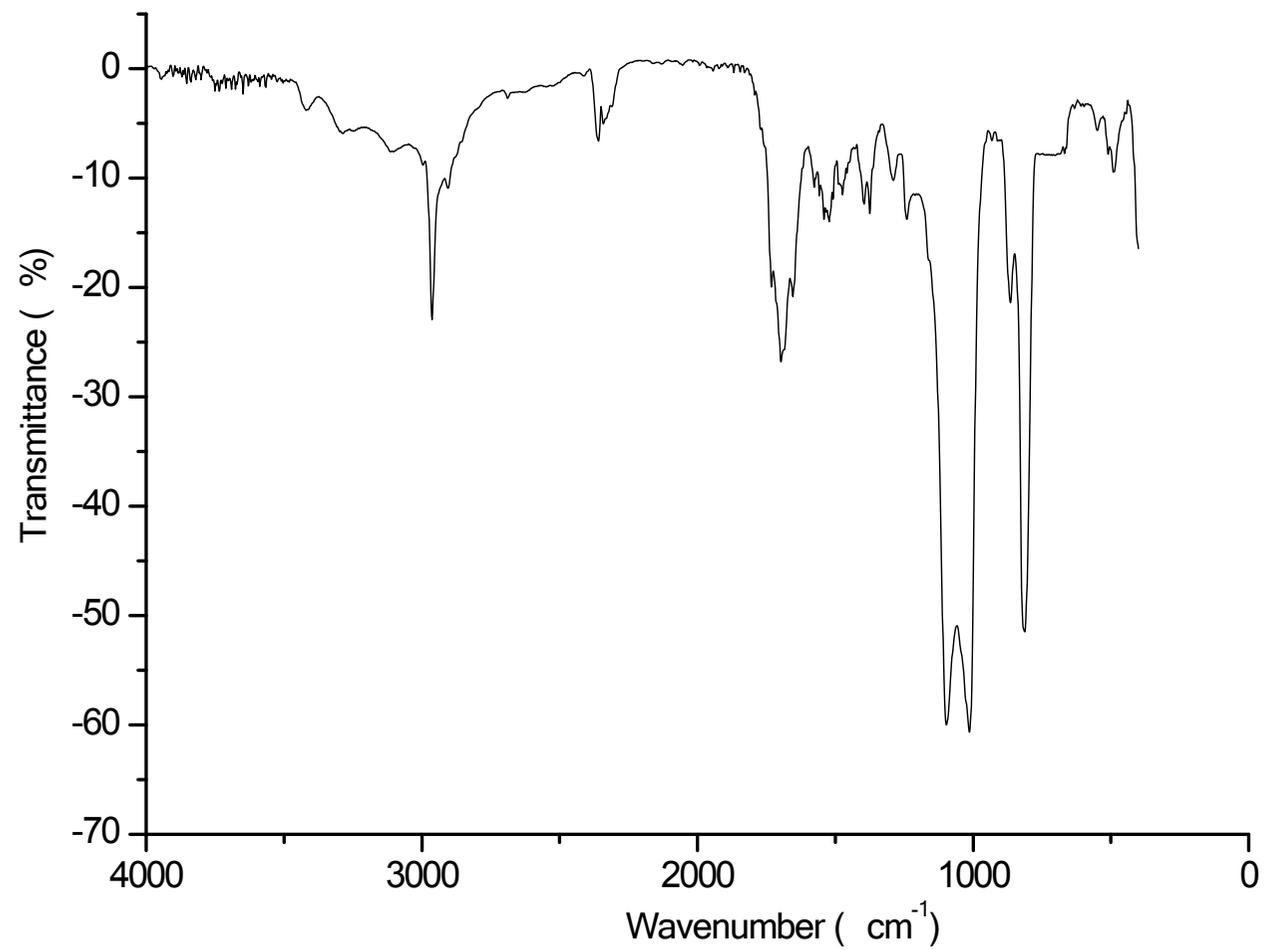


Figure S2. IR spectrum of compound **5** ($c = 5 \times 10^{-2}\text{M}$)

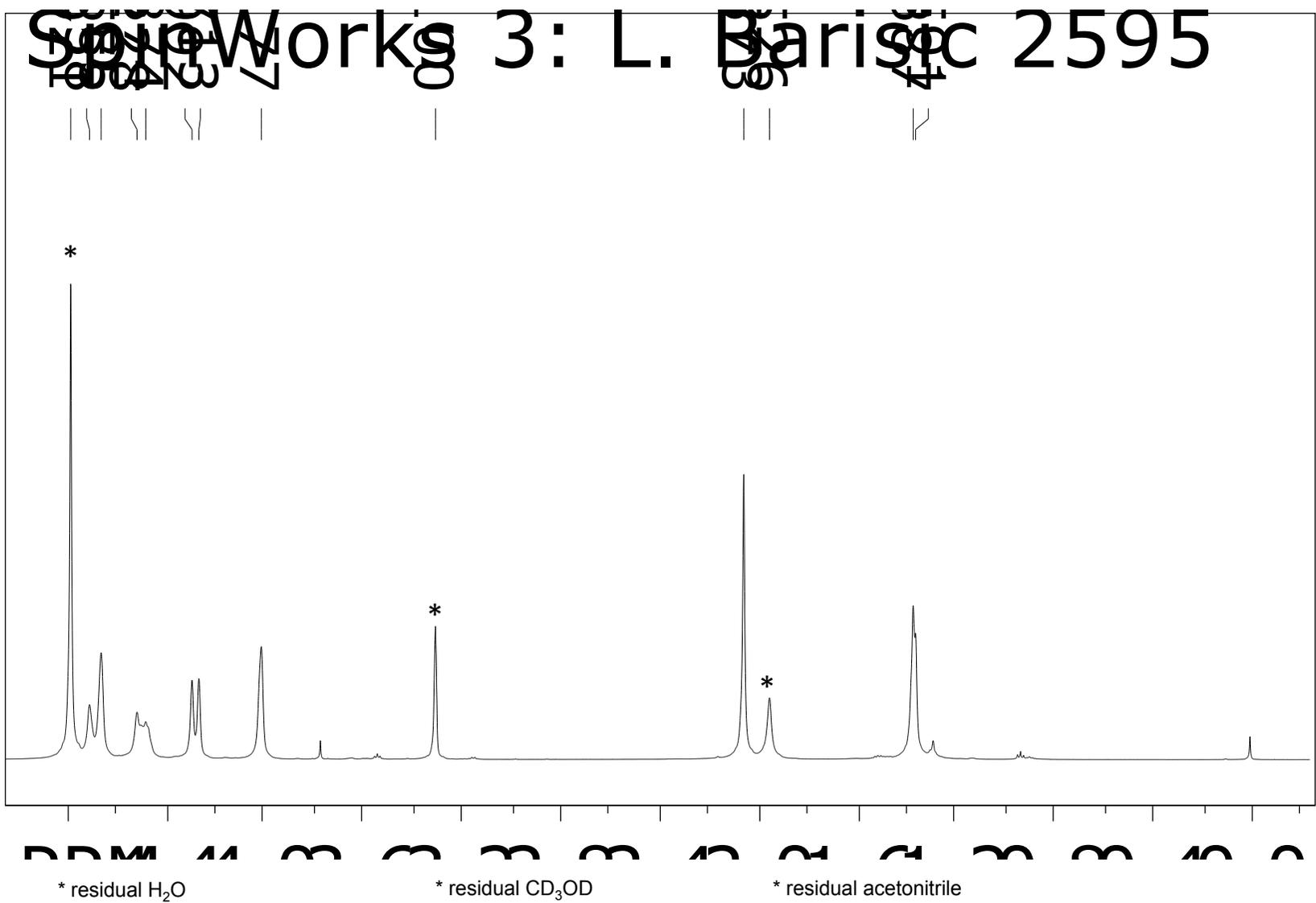


Figure S3. ¹H NMR spectrum of compound **5** ($c = 2.5 \times 10^{-2}$ M)

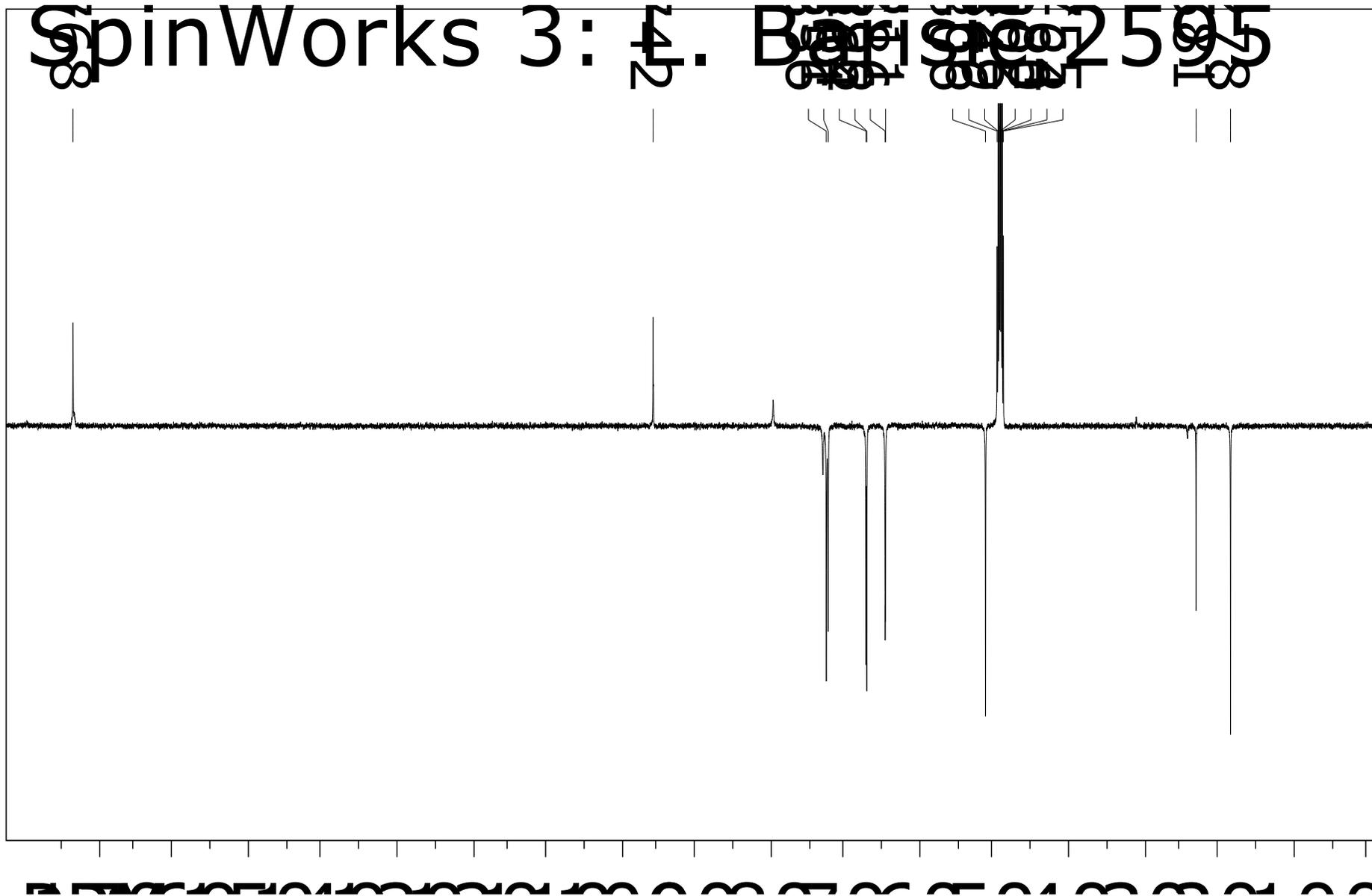


Figure S4. ^{13}C NMR spectrum of compound **5** ($c = 5 \times 10^{-2}\text{M}$)

SpinWorks 3: L. Barisic 2595

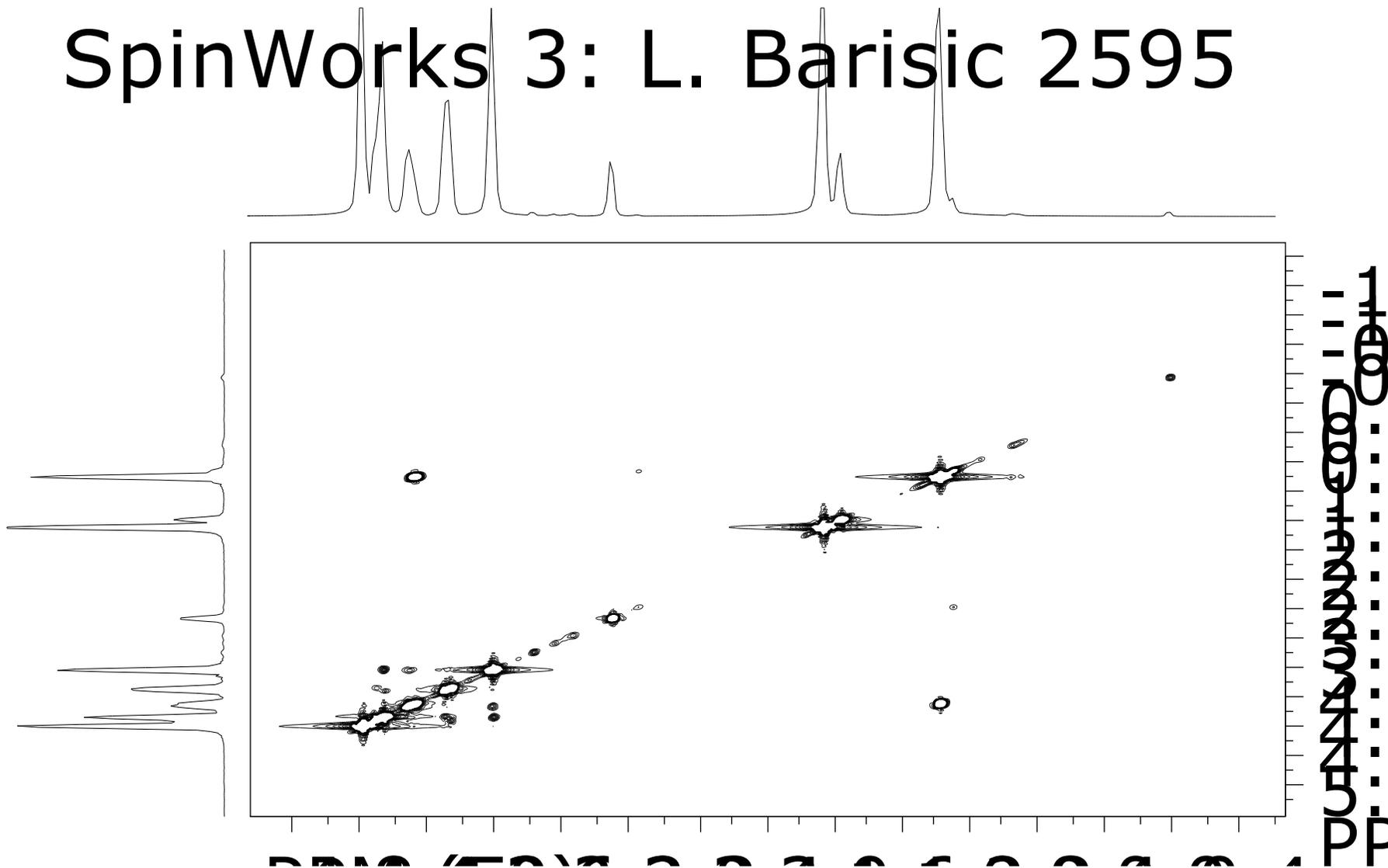
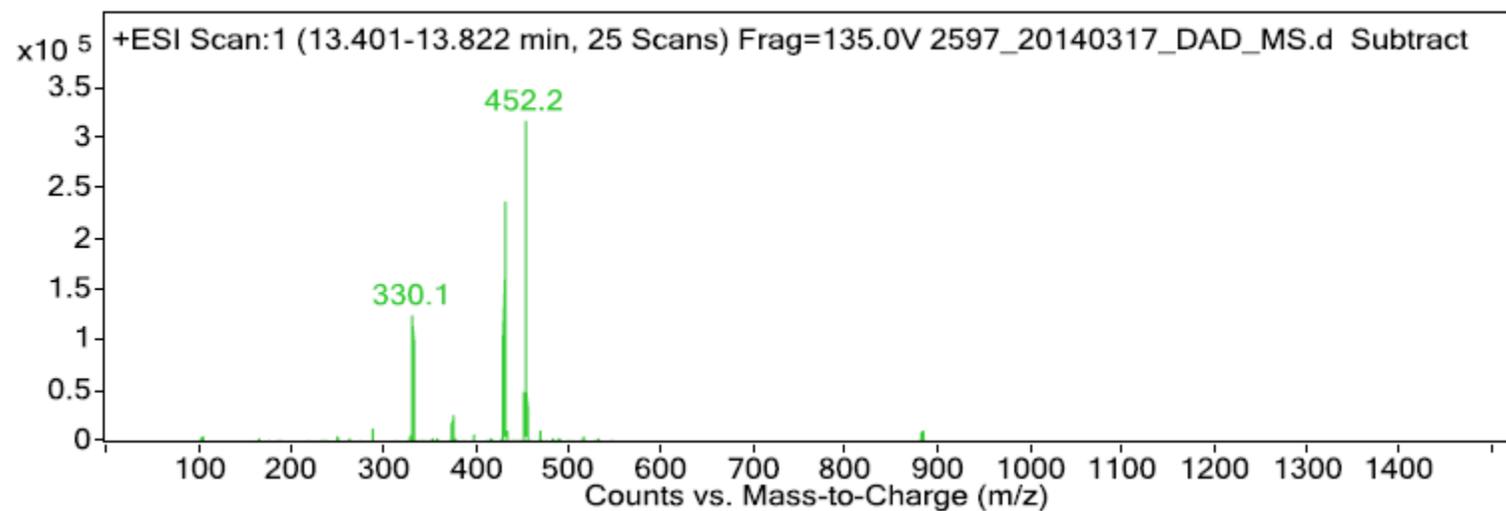


Figure S5. COSY NMR spectrum of compound 5 ($c = 2.5 \times 10^{-2}M$)

Compound 7



Peak List

<i>m/z</i>	<i>z</i>	Abund
330.1	1	125219.8
331.2	1	24889
373.1		26764.7
374.1		23015.7
427.2		28753.2
429.1	1	237638.6
430.2	1	70686.9
450.1		50177.4
452.2	1	317638.1
453.2	1	72568.7

Figure S6. ESI-MS spectrum of compound 7

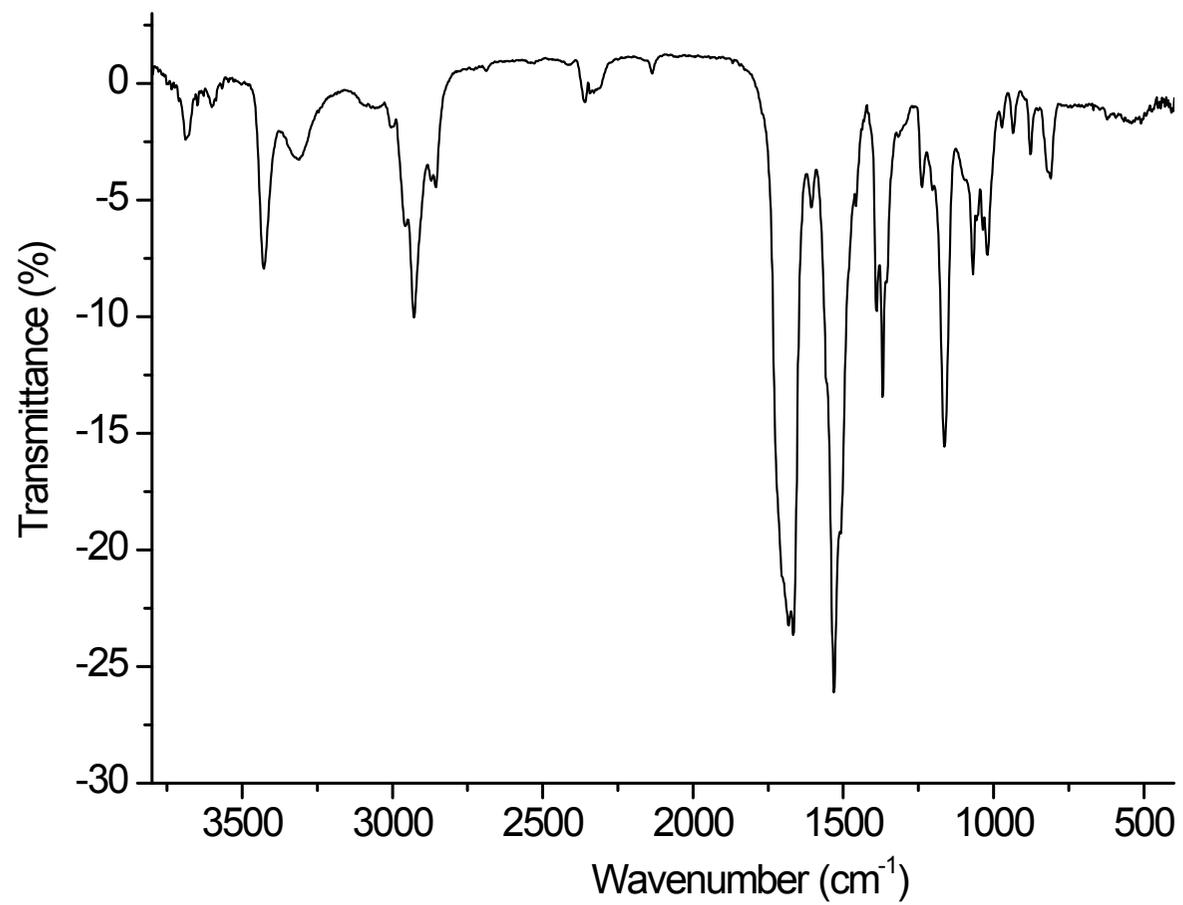


Figure S7. IR spectrum of compound **7** ($c = 5 \times 10^{-2}\text{M}$)

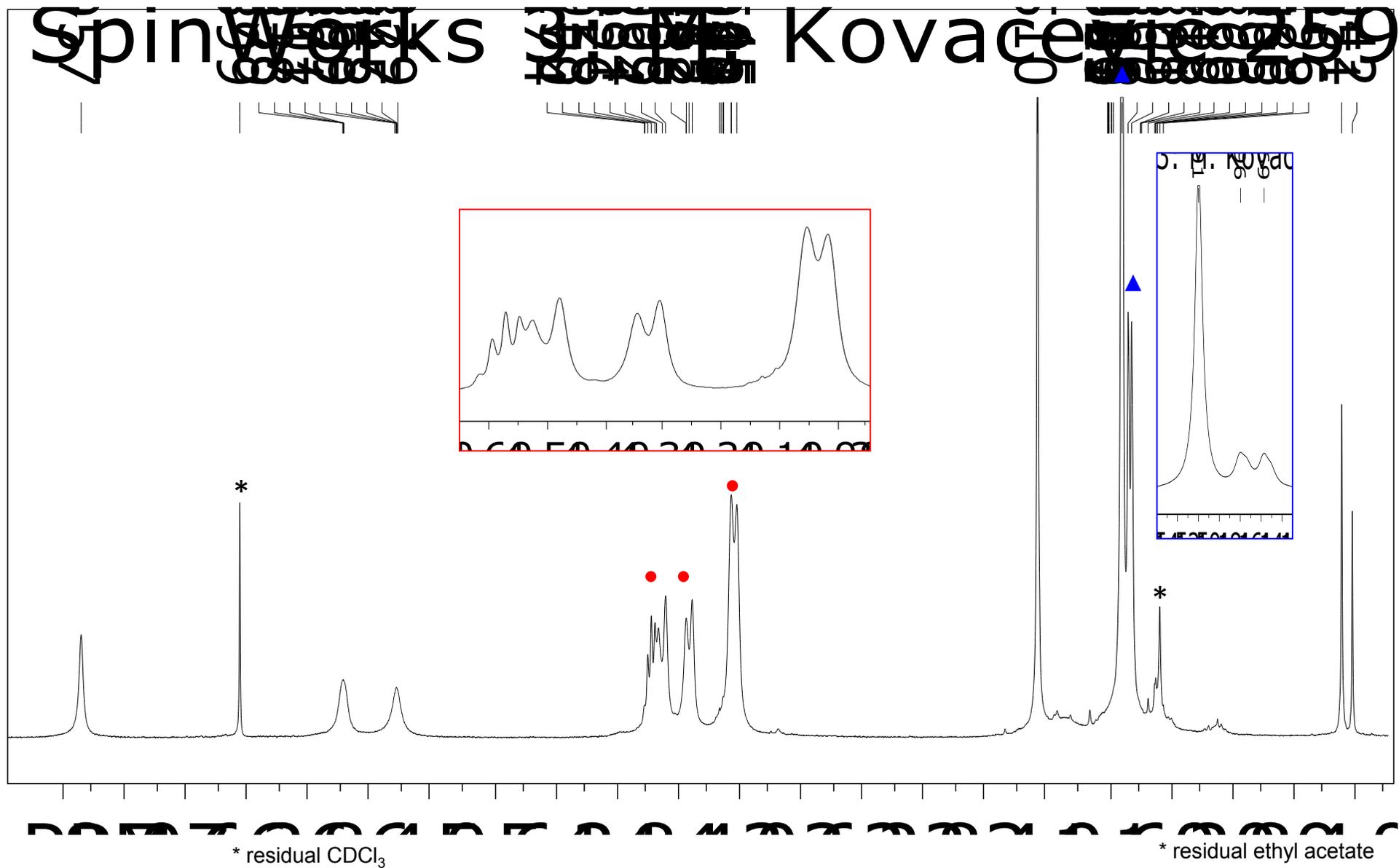


Figure S8. ^1H NMR spectrum of compound 7 ($c = 2.5 \times 10^{-2}\text{M}$)

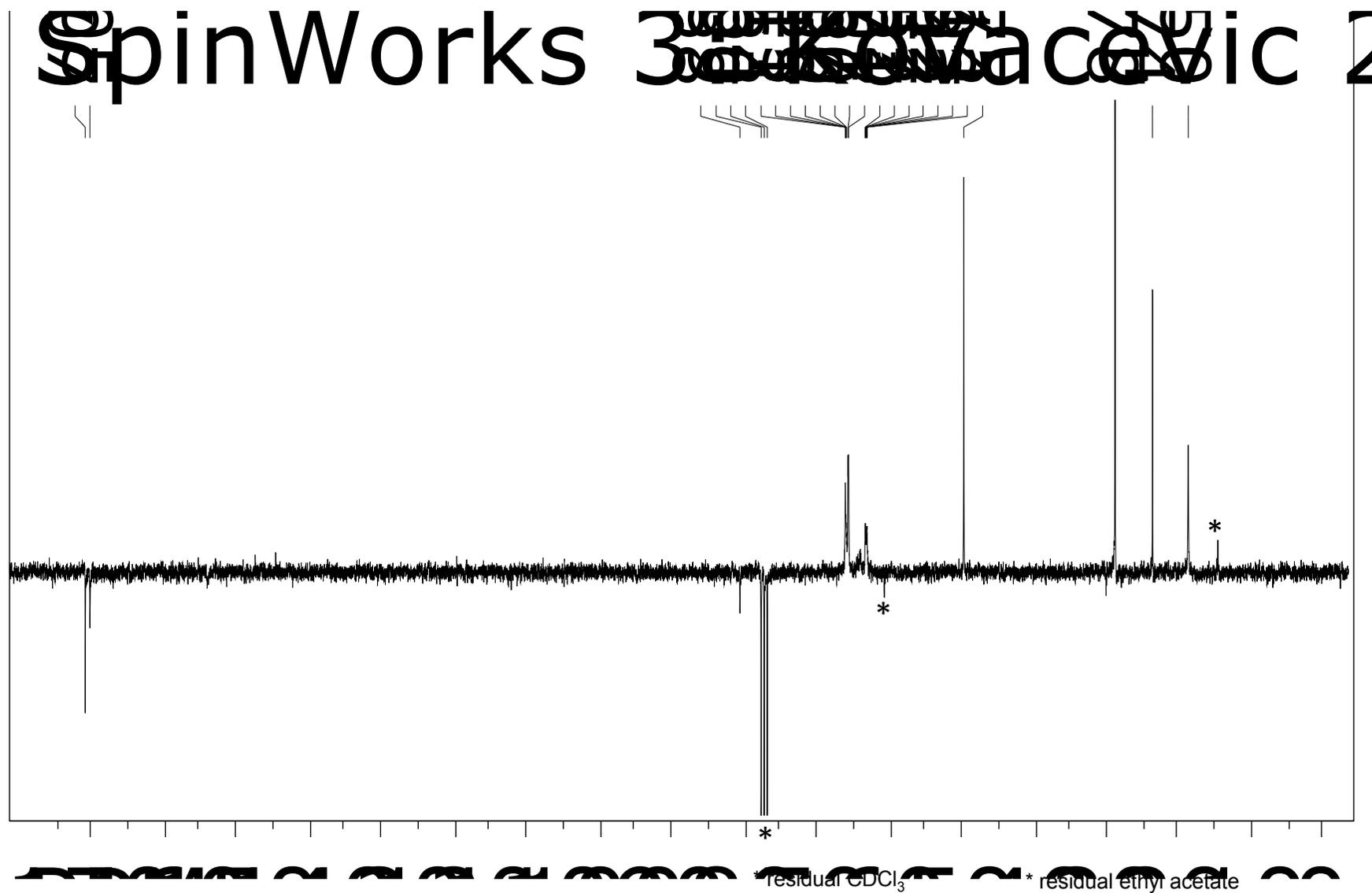


Figure S9. ¹³C NMR spectrum of compound 7 (*c* = 5 × 10⁻²M)

SpinWorks 3: M. Kovacevic 2597

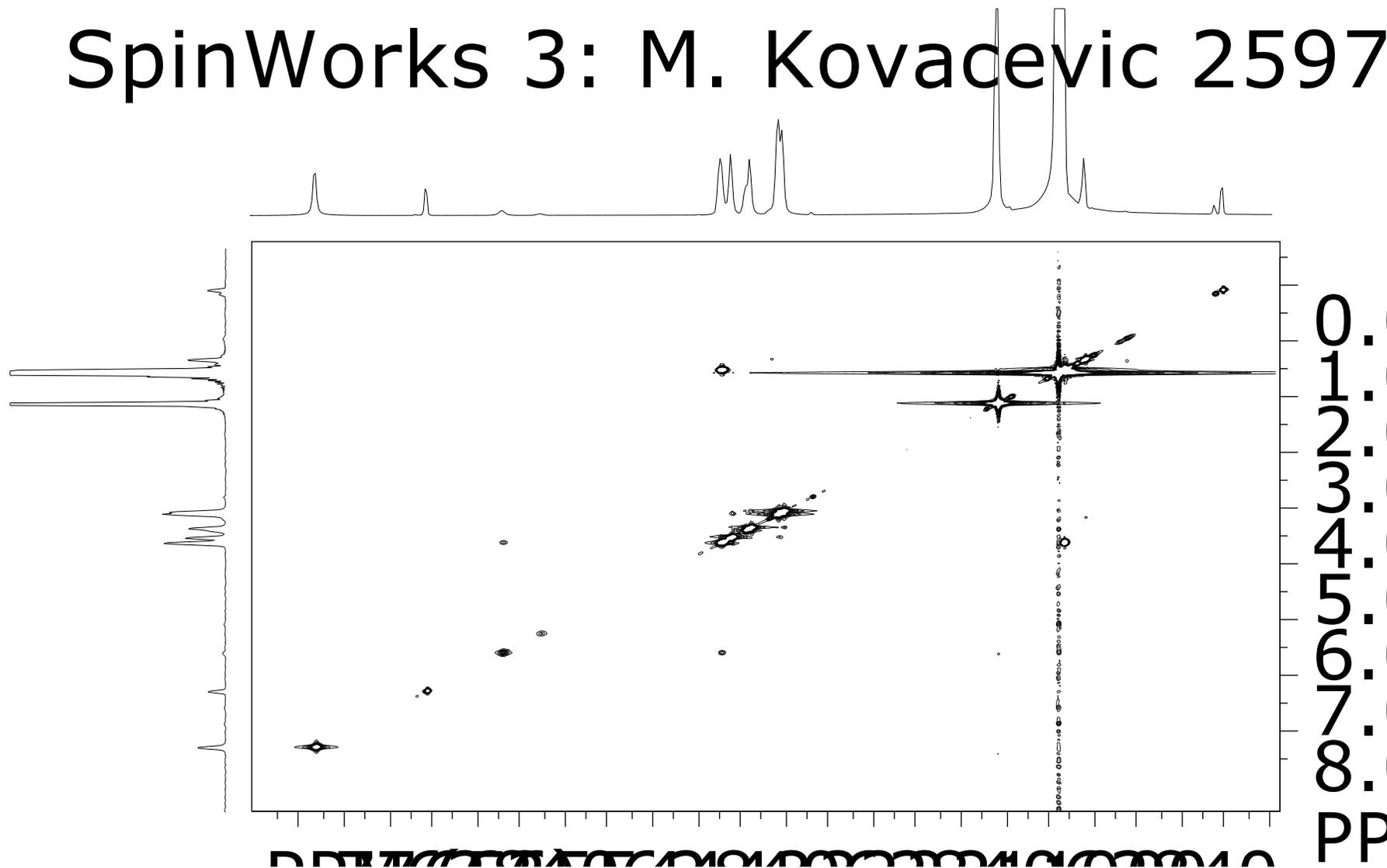


Figure S10. COSY NMR spectrum of compound 7 ($c = 2.5 \times 10^{-2}M$)

Compound 3b

<<2598_20150220_E15>> 4700 Reflector Spec #1[BP = 500.2, 13721]

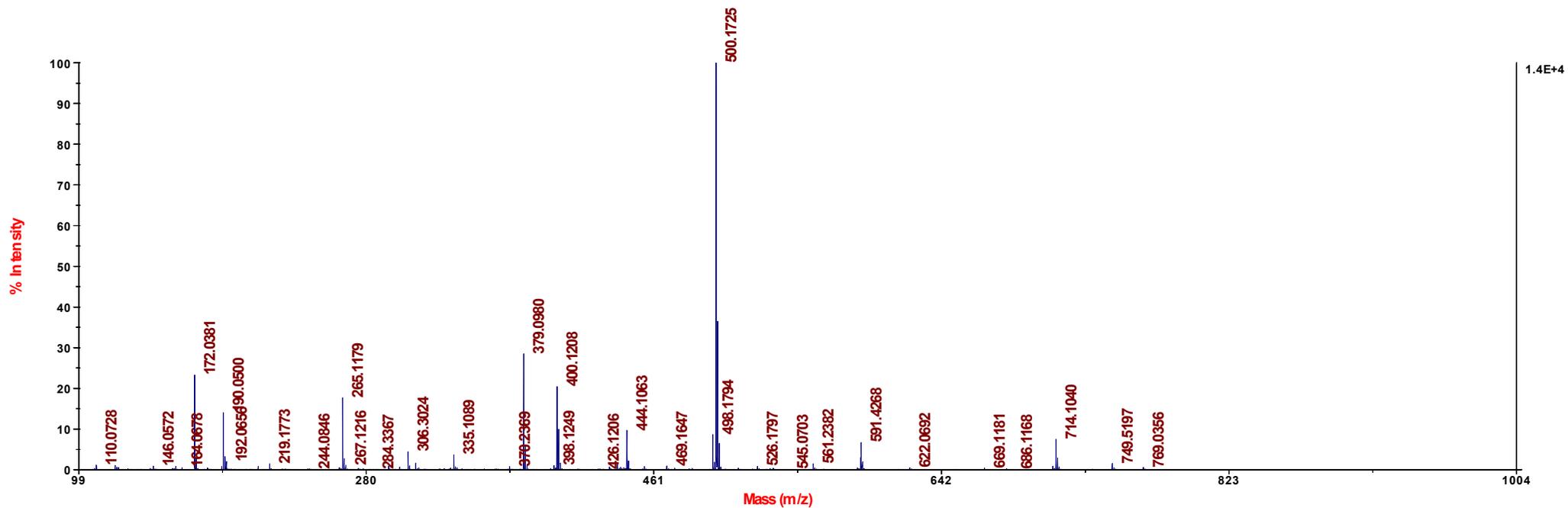
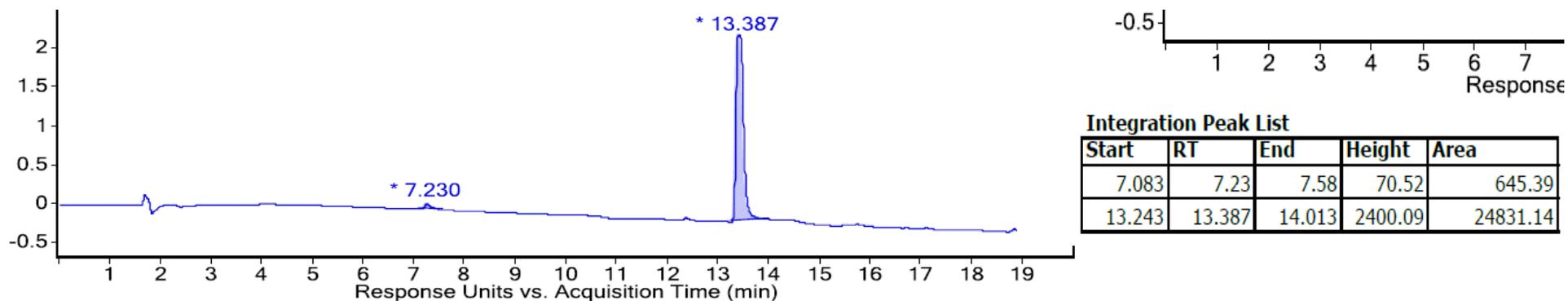


Figure S12. HRMS spectrum of compound 3b



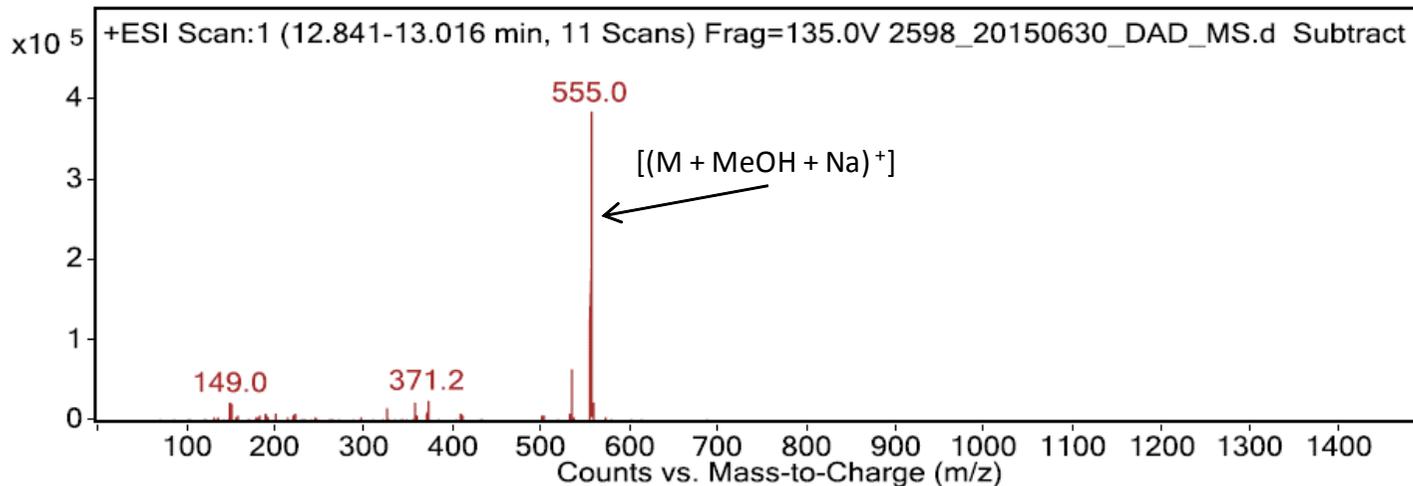
Integration Peak List

Spectrum Source: Peak (5) in "+ TIC Scan"

Fragmentor Voltage: 135

Collision Energy: 0

Ionization Mode: ESI



Peak List

m/z	z	Abund
149		22879.7
357		22681.9
371.2		25633.7
533	1	65148.5
534	1	22405.8
553		26502.5
555	1	384847.1
556	1	122099.2
557	1	22608.8

Figure S13. LC-MS assessment of purity of **3b** (97%) dissolved in MeOH. Elution conditions: 30-70% gradient elution system with H₂O + 0.1% FA (solvent A) and MeOH + 0.1% FA (solvent B) over 20 min at 0.5 mL/min. Column used: Zorbax C18 XDB 3.5 μm, 4.6x75 mm (Agilent, Palo Alto, CA, USA).

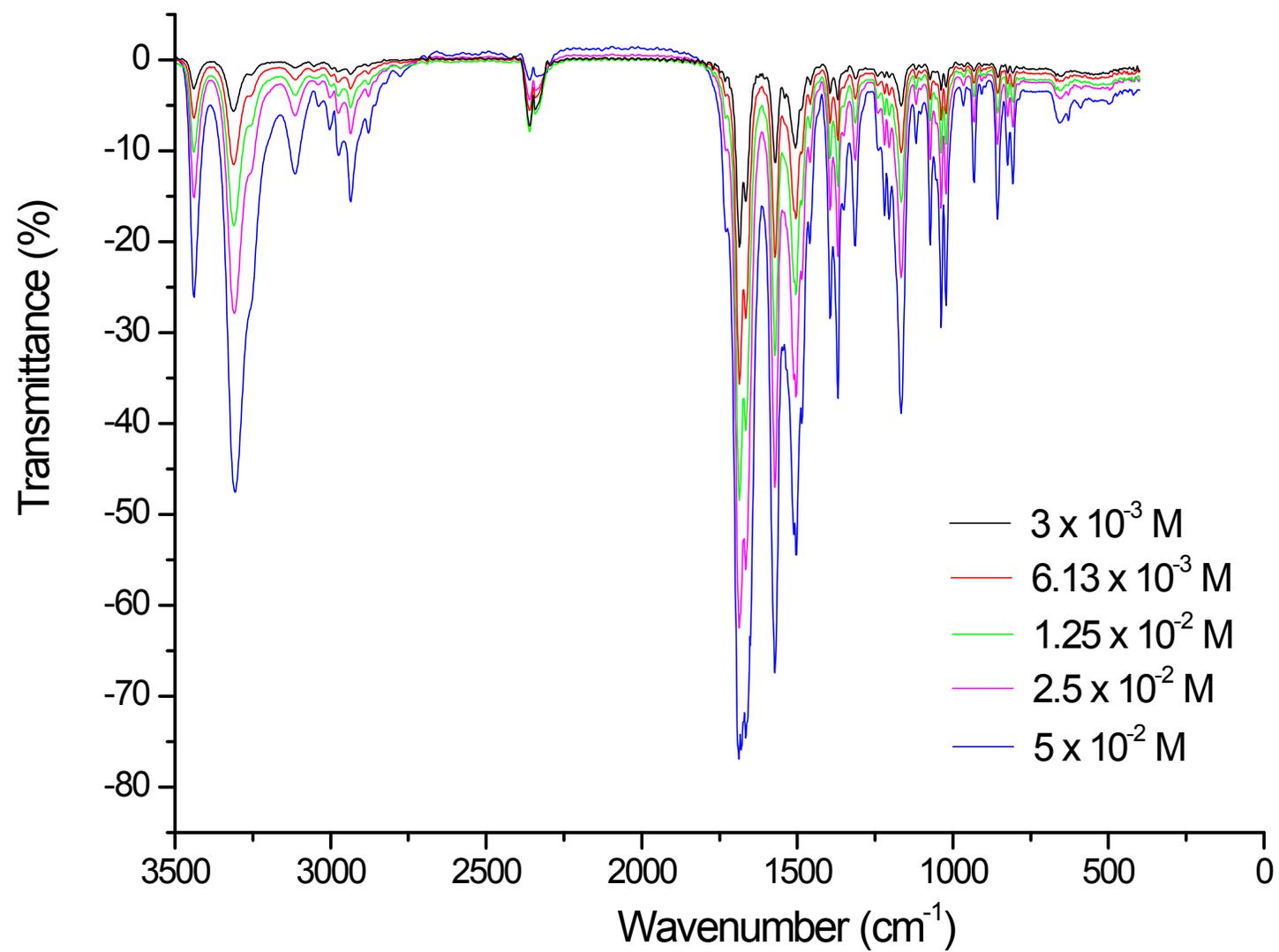


Figure S14. Concentration-dependent IR spectra of compound **3b**

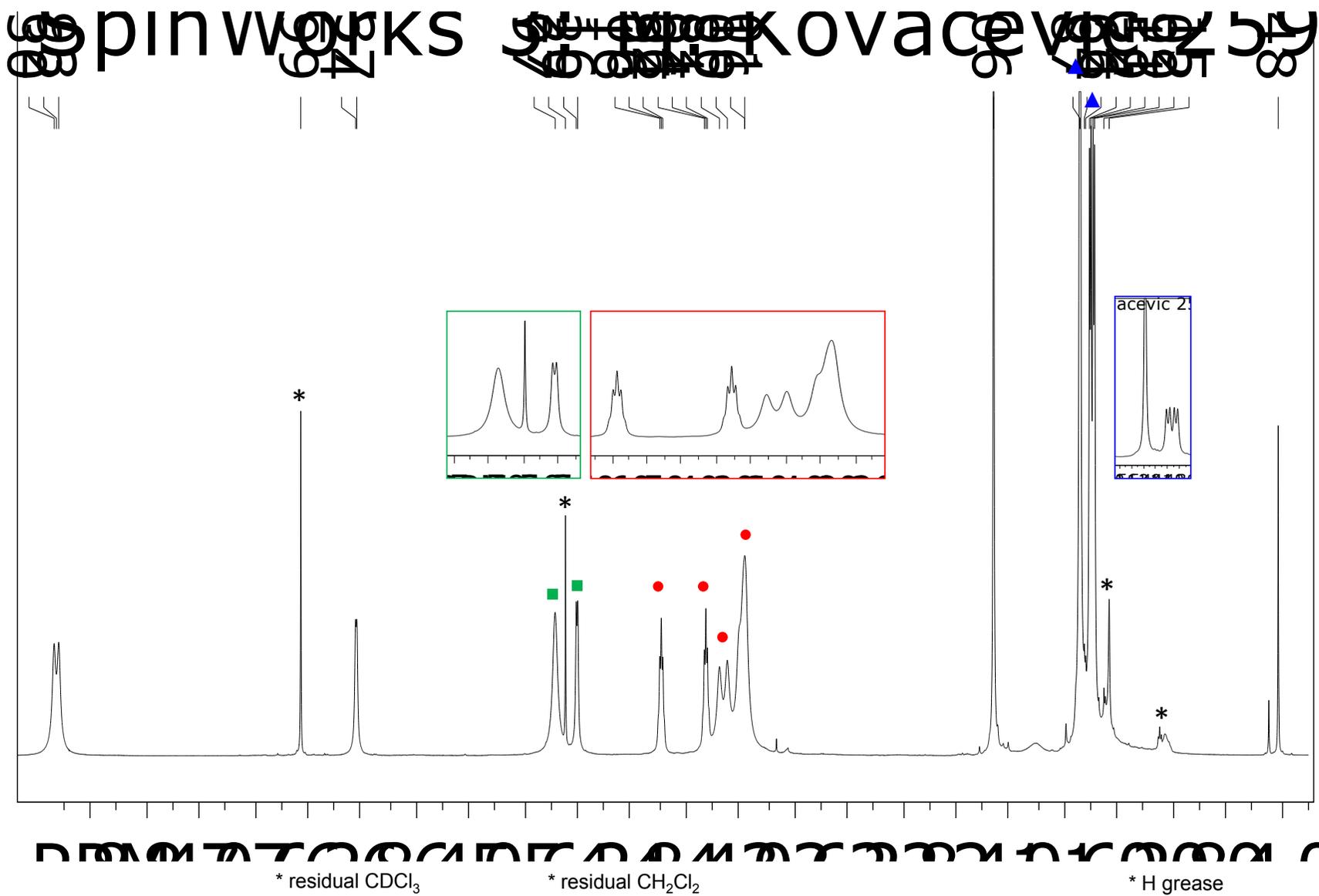


Figure S15. ^1H NMR spectrum of compound **3b** ($c = 5 \times 10^{-2}\text{M}$)

SpinWorks 3: Molecule Viewer 259

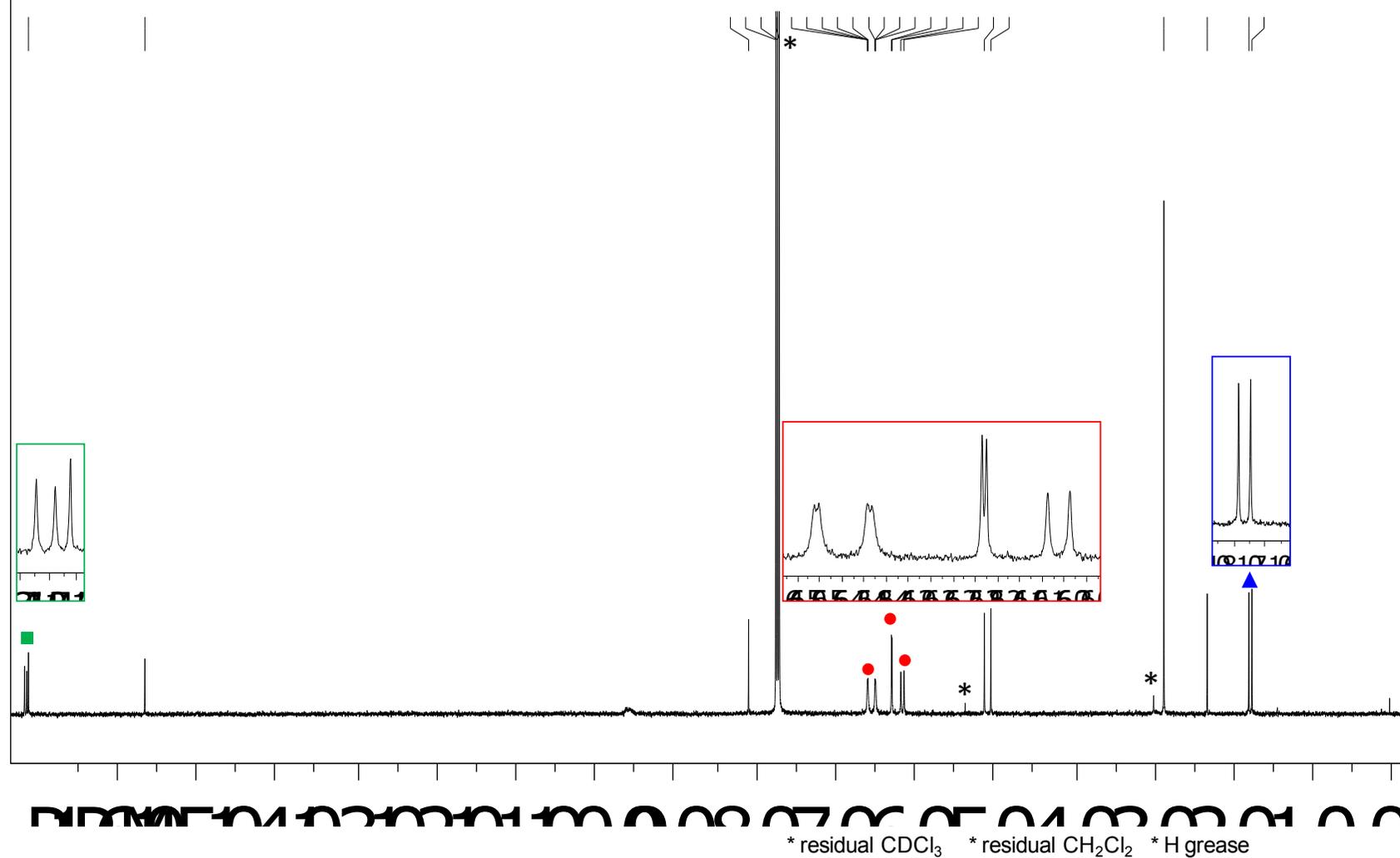


Figure S16. ^{13}C NMR spectrum of compound **3b** ($c = 5 \times 10^{-2}\text{M}$)

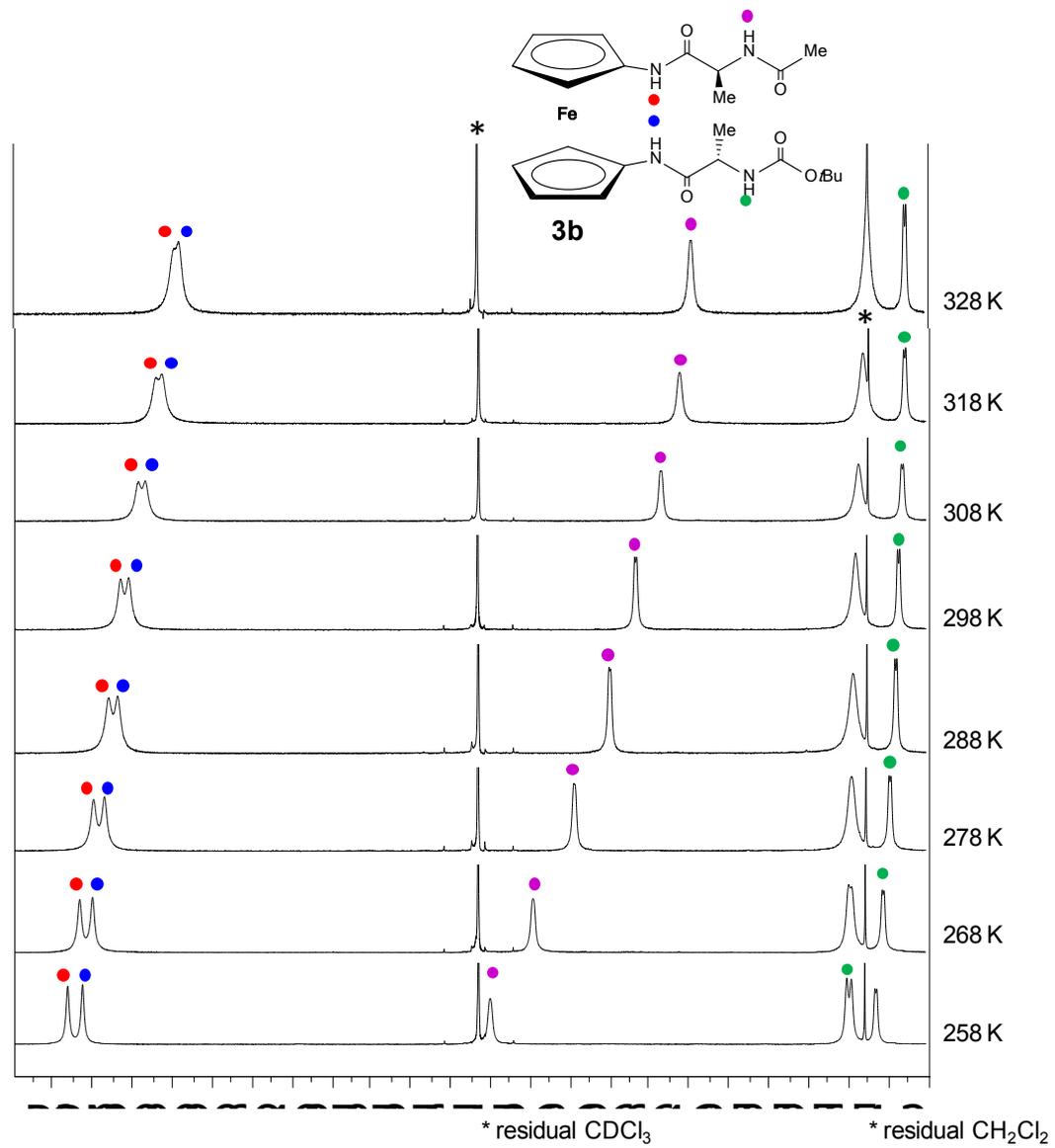


Figure S18. Temperature-dependent NH chemical shifts of compound **3b** ($c = 2.5 \times 10^{-2}\text{M}$)

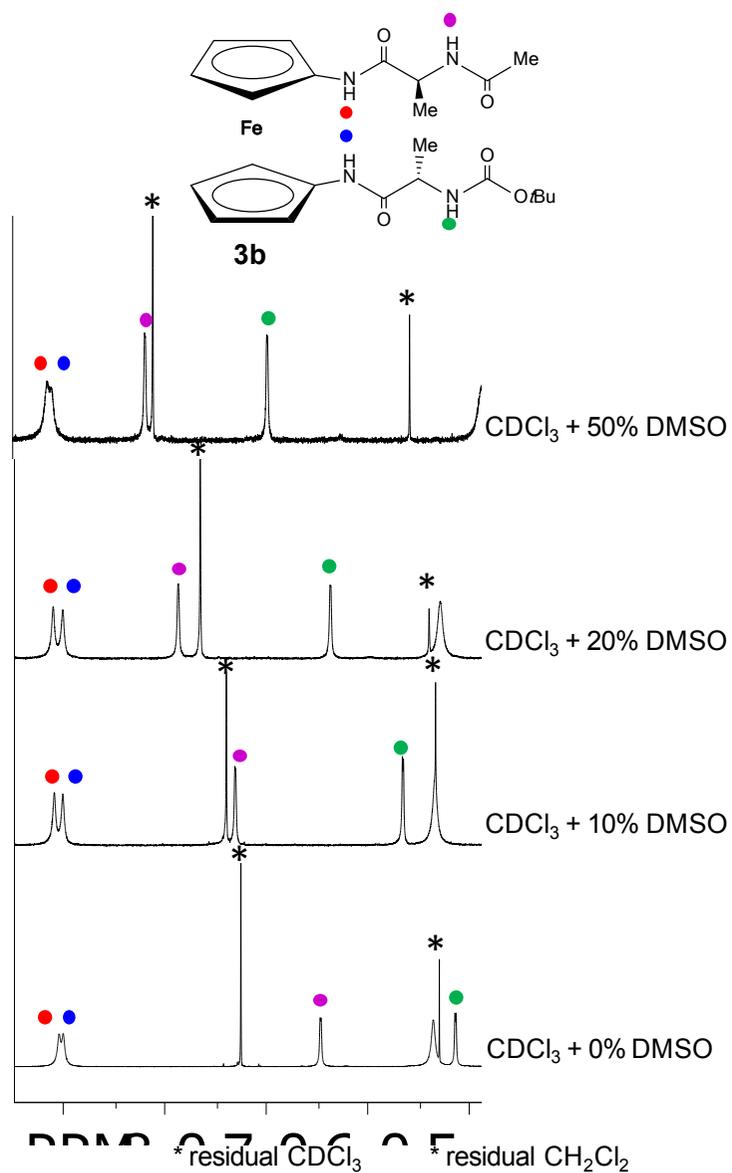


Figure S19. Solvent dependence of NH chemical shifts of compound **3b** at varying concentrations of d_6 -DMSO in CDCl_3 ($c = 2.5 \times 10^{-2}\text{M}$)

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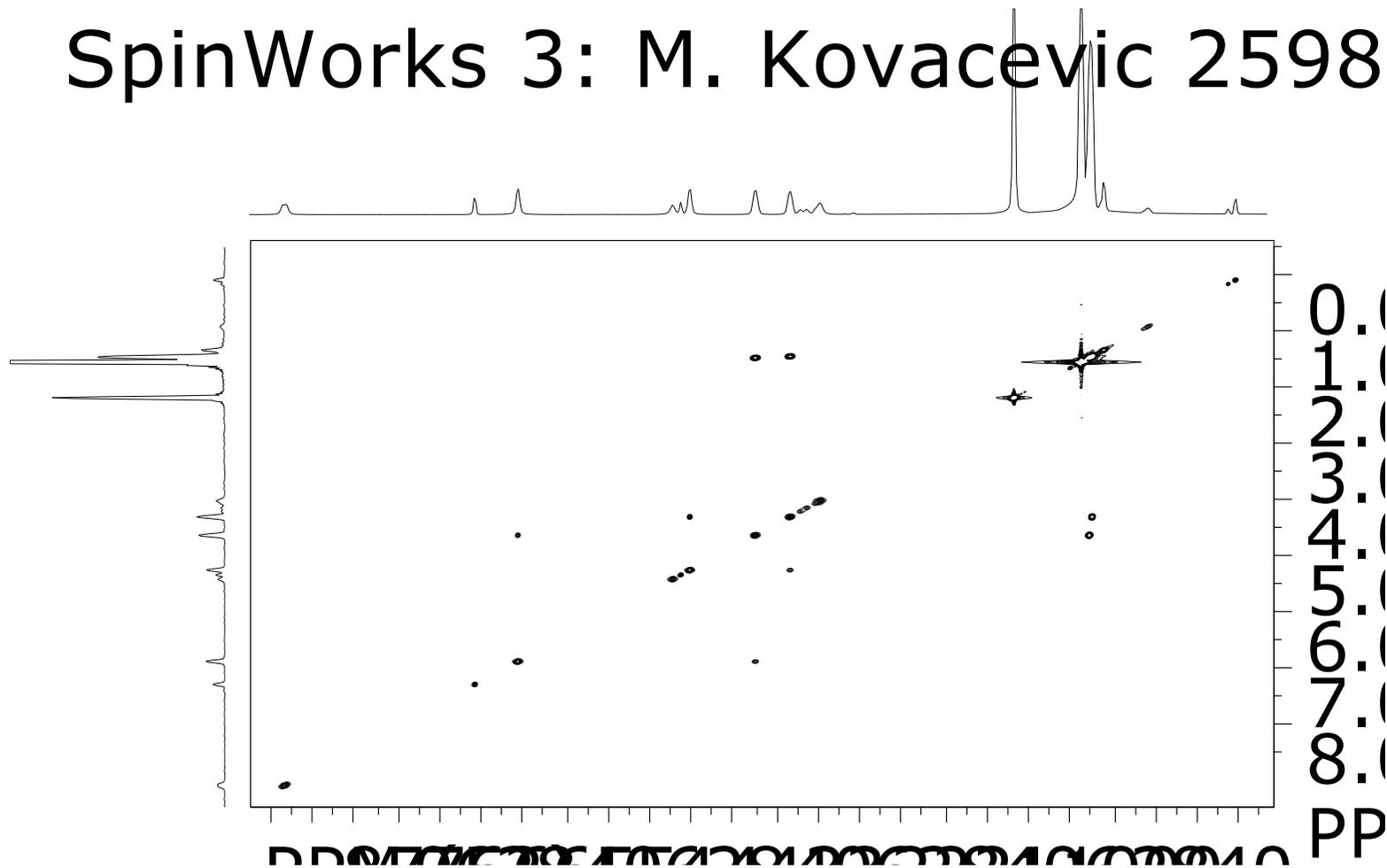


Figure S20. COSY NMR spectrum of compound **3b** ($c = 5 \times 10^{-2}\text{M}$)

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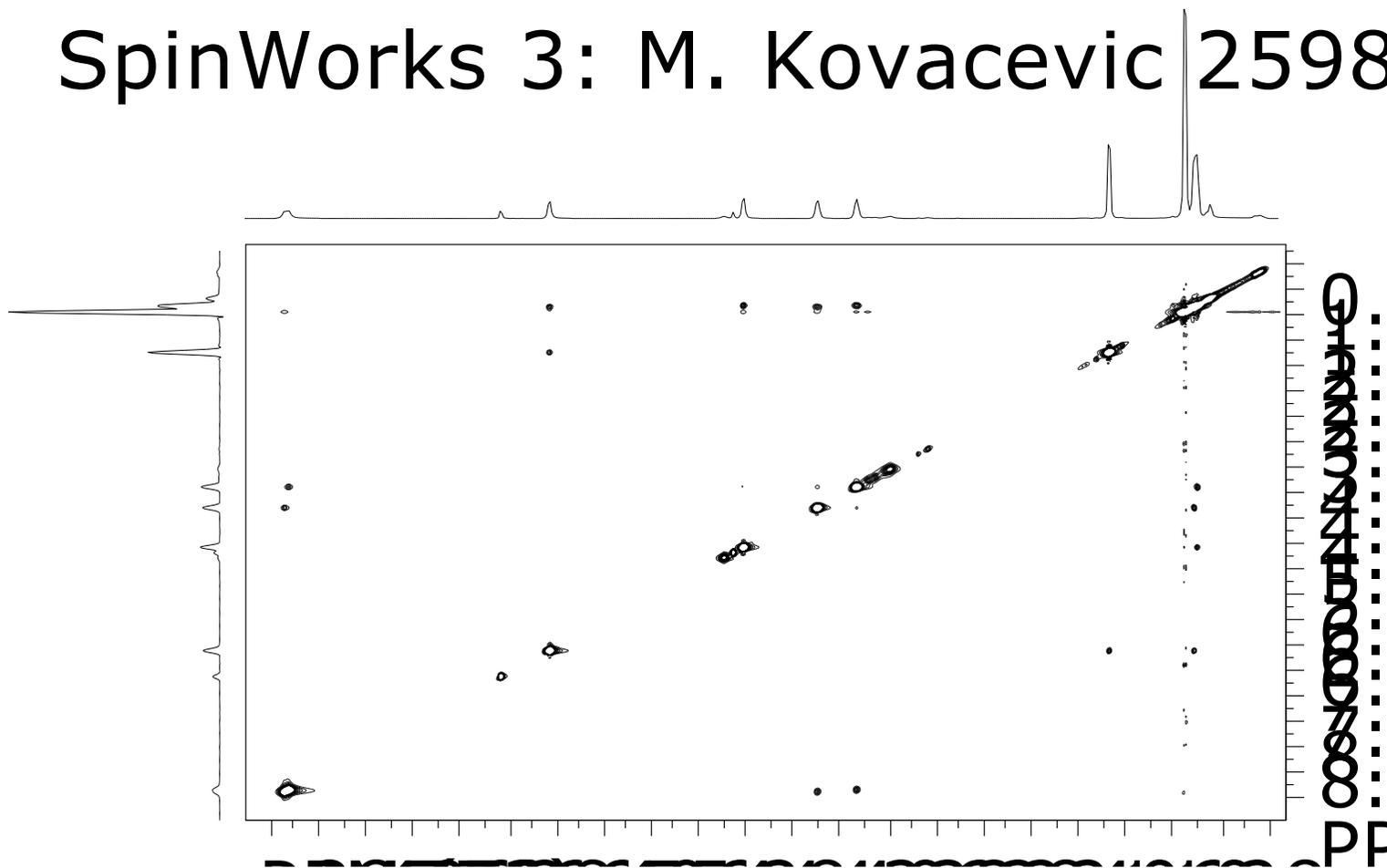


Figure S21. NOESY NMR spectrum of compound **3b** ($c = 5 \times 10^{-2}M$)

Compound 3c

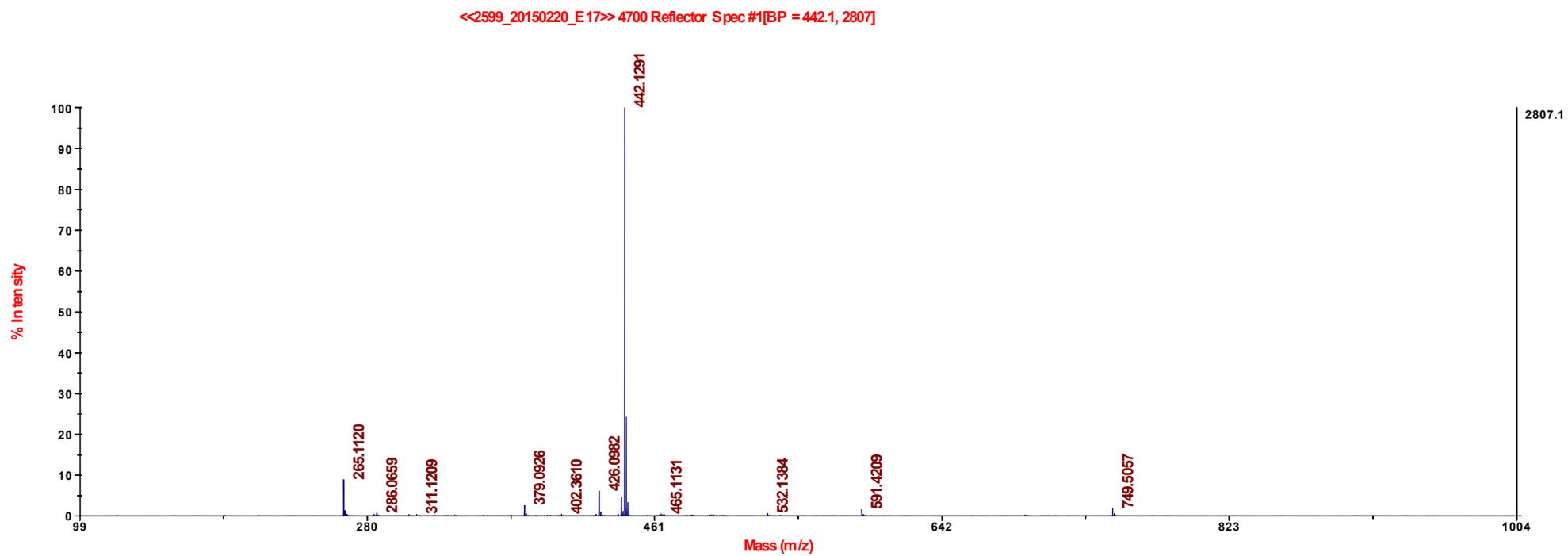
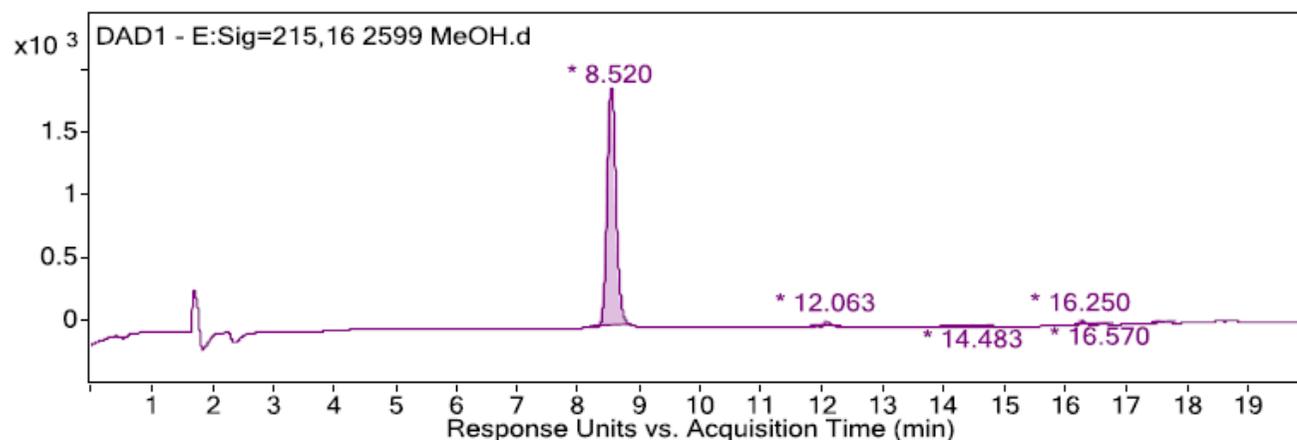


Figure S22. HRMS spectrum of compound **3c**



Integration Peak List

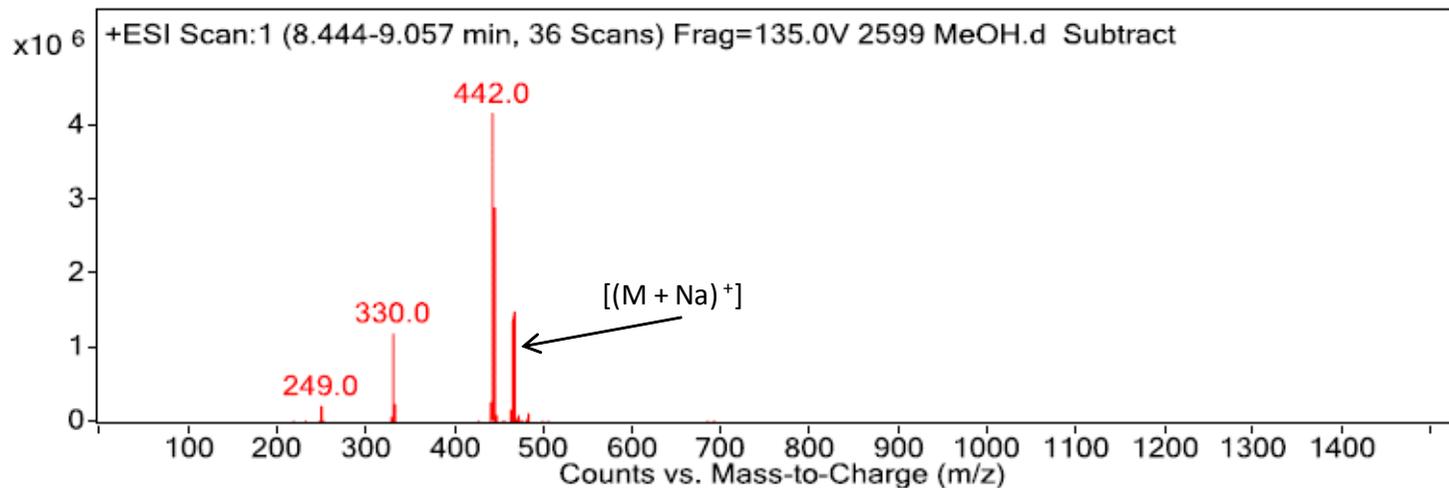
Start	RT	End	Height	Area
8.19	8.52	8.883	1894.37	19465.4
11.803	12.063	12.33	45.62	419.62
13.937	14.483	14.837	8.17	154.78
16.153	16.25	16.483	36.72	259.43
16.493	16.57	16.79	12.85	94.45
17.42	17.53	17.82	16.98	141.34

Spectrum Source
Peak (2) in "+ TIC Scan"

Fragmentor Voltage
135

Collision Energy
0

Ionization Mode
ESI



Peak List

m/z	z	Abund
249		223026.7
330	1	1210599.9
331	1	241481.3
440.1		271536.1
442		4188175.8
443.1	1	2901169.5
444.1	1	668026.3
465	1	1513849.4
466.1	1	375245.8

Figure S23. LC-MS assessment of purity of **3c** (95%) dissolved in MeOH. Elution conditions: 30-70% gradient elution system with H₂O + 0.1% FA (solvent A) and MeOH + 0.1% FA (solvent B) over 20 min at 0.5 mL/min. Column used: Zorbax C18 XDB 3.5 μ m, 4.6x75 mm (Agilent, Palo Alto, CA, USA).

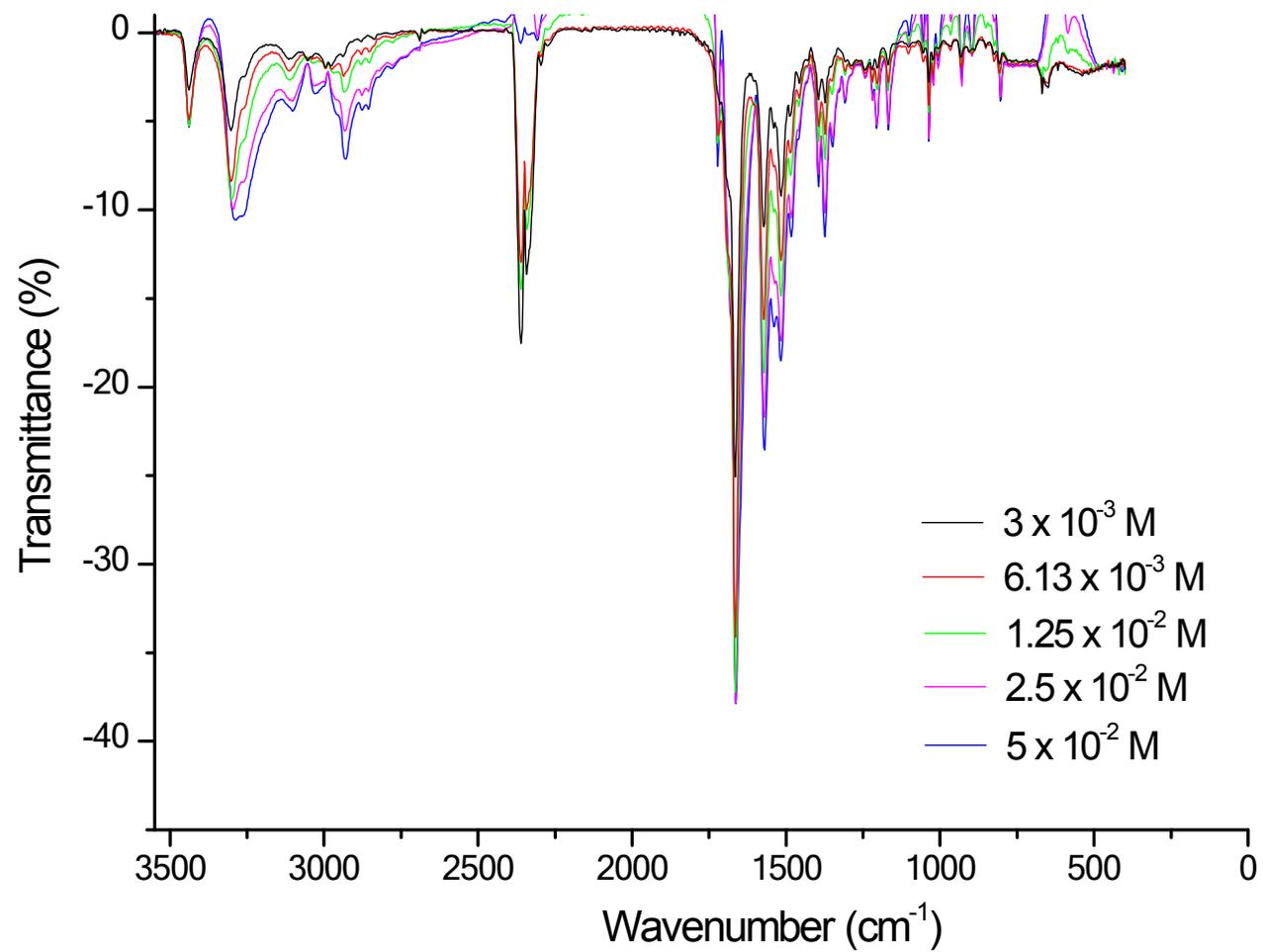


Figure S24. Concentration-dependent IR spectra of compound **3c**

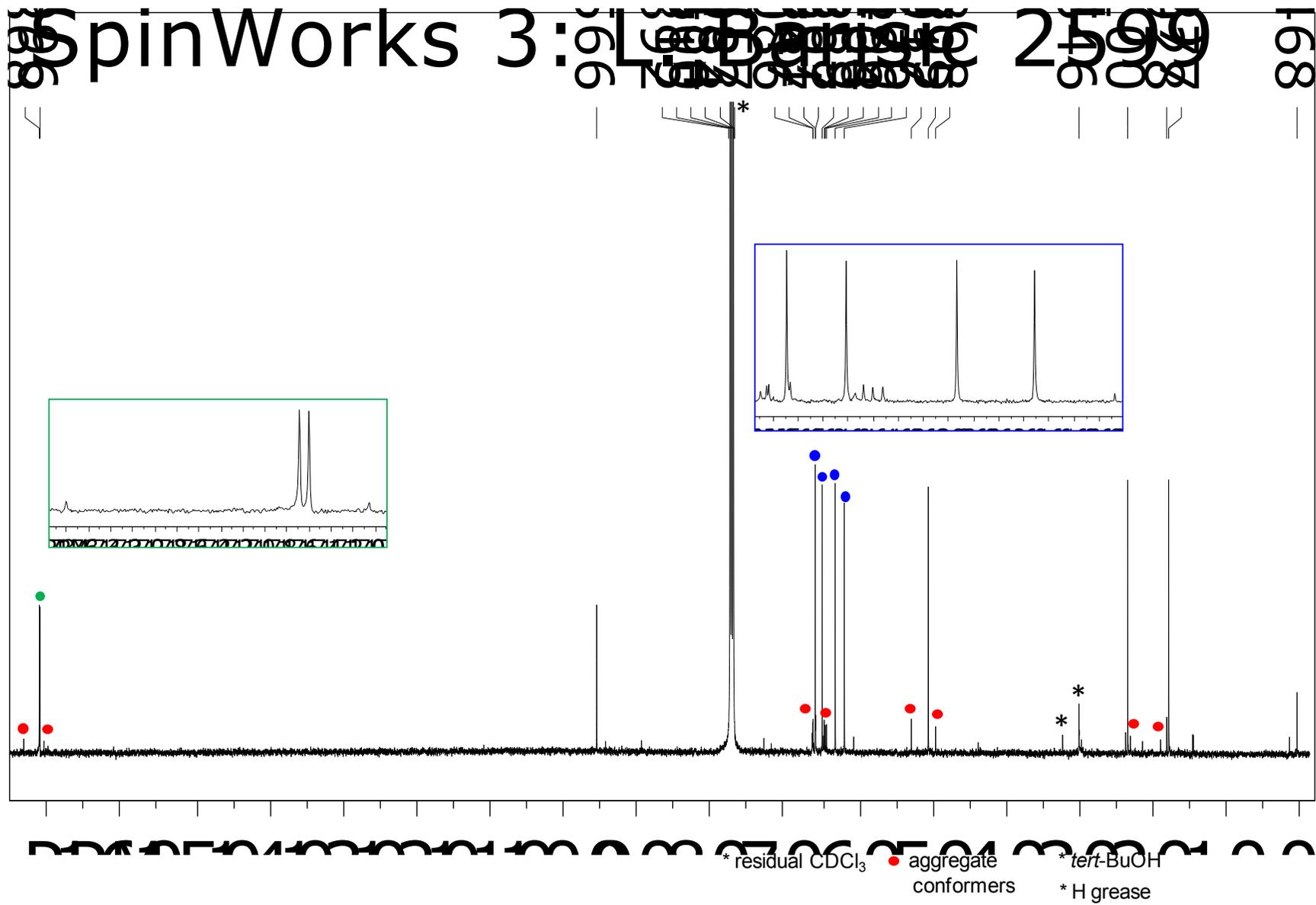


Figure S27. ^{13}C NMR spectrum of compound **3c** ($c = 5 \times 10^{-2}\text{M}$)

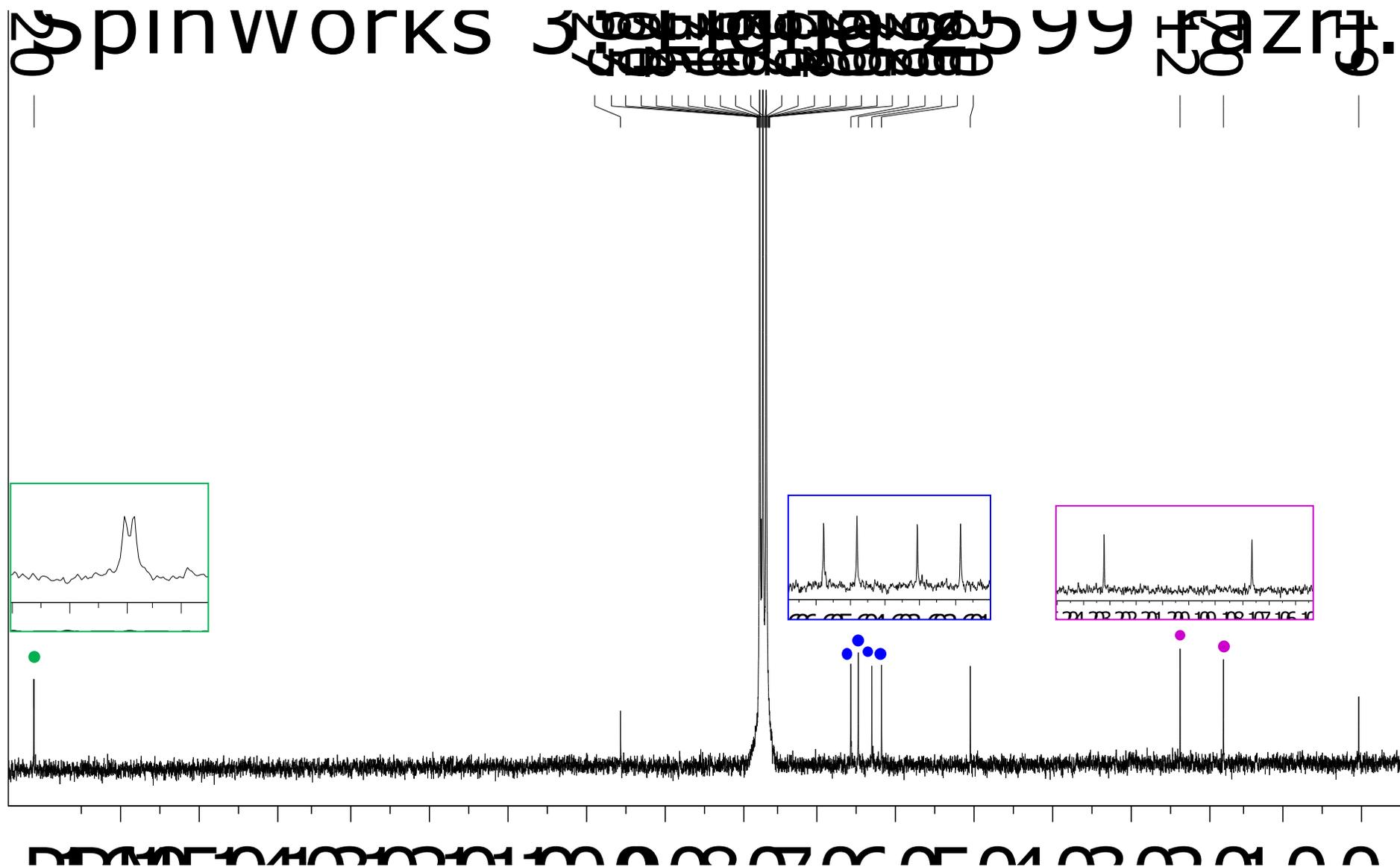


Figure S28. ^{13}C NMR spectrum of compound **3c** ($c = 2.5 \times 10^{-2}\text{M}$)

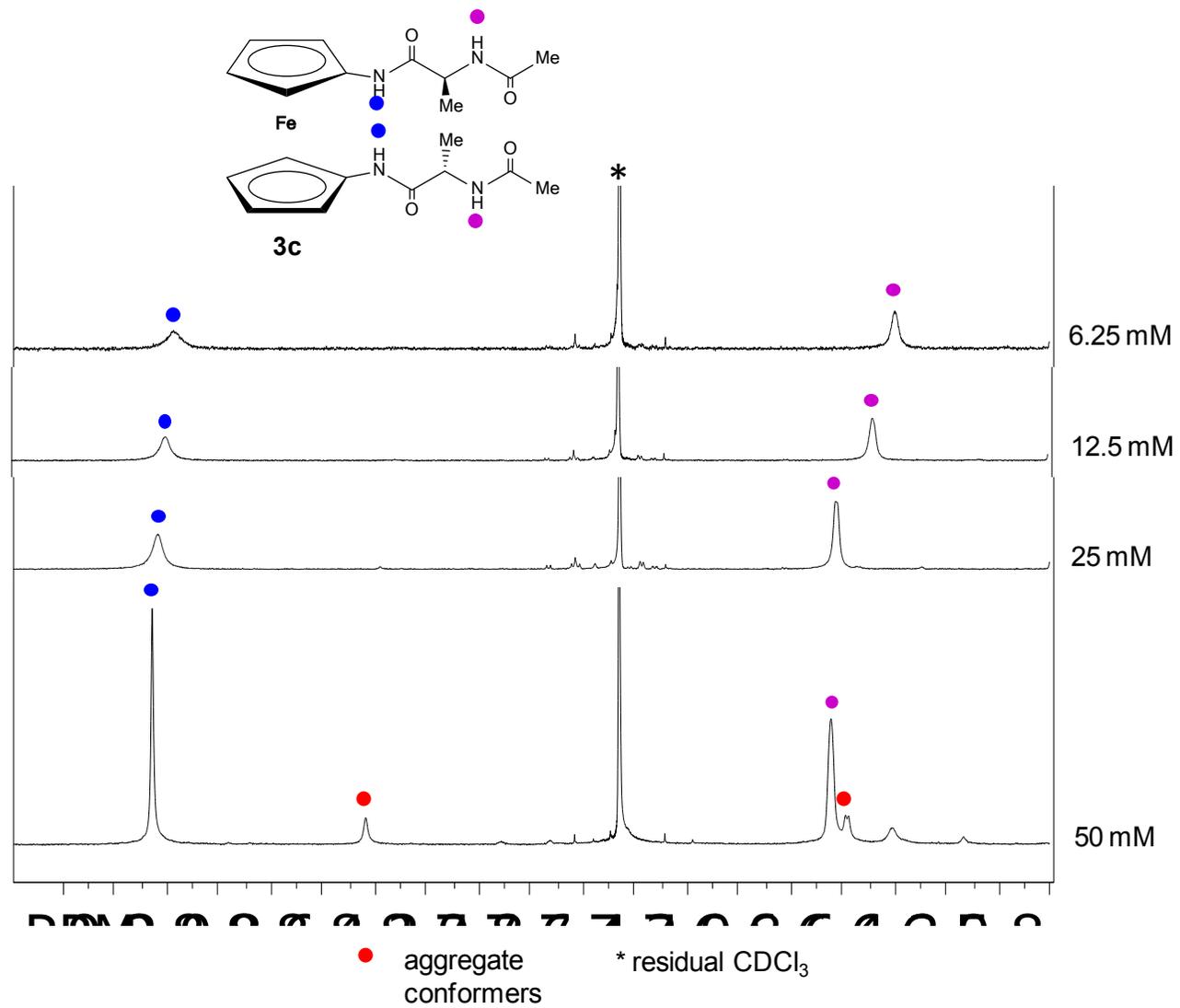


Figure S29. Concentration-dependent NH chemical shifts of compound **3c**

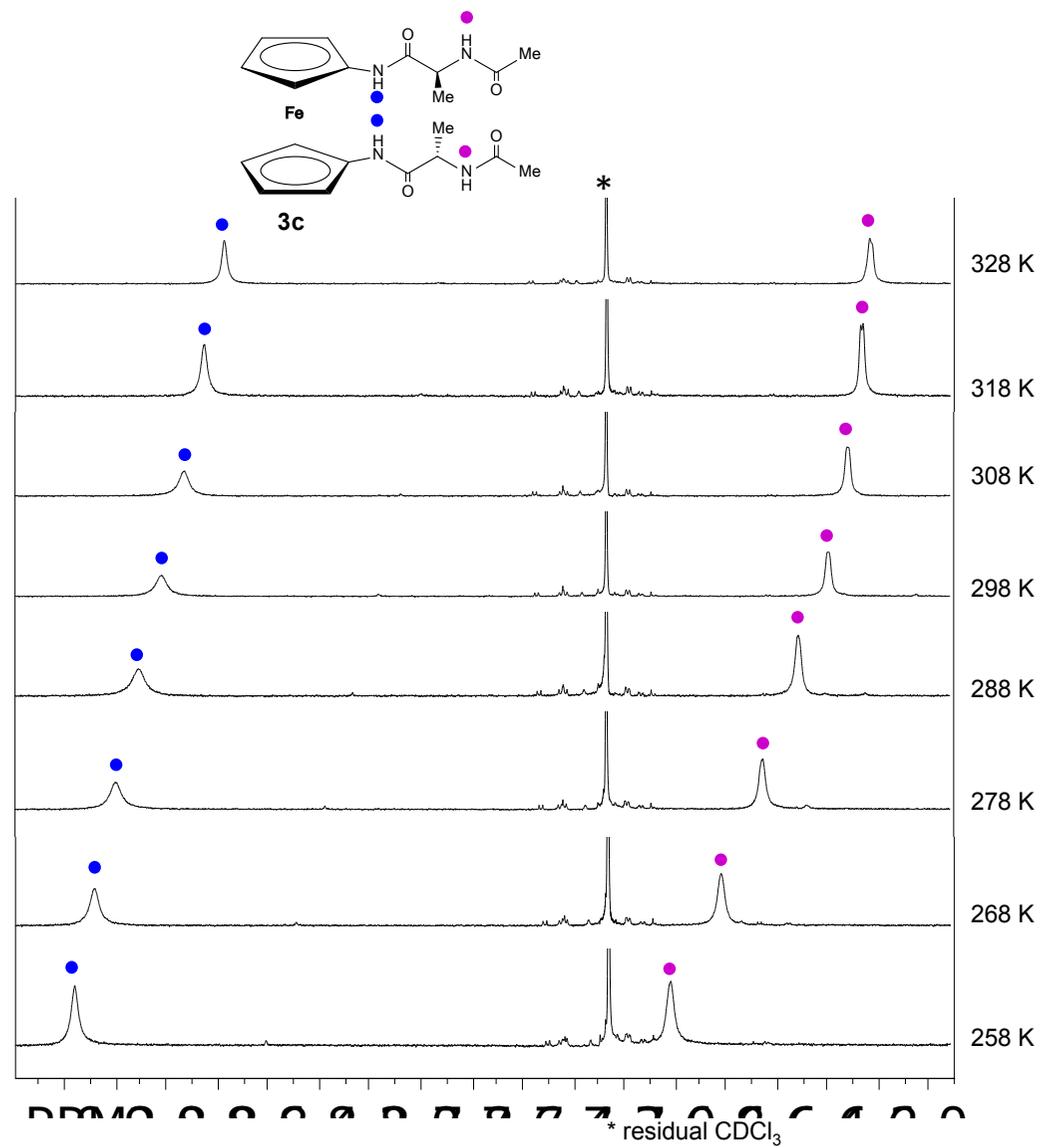


Figure S30. Temperature-dependent NH chemical shifts of compound **3c** ($c = 2.5 \times 10^{-2}$ M)

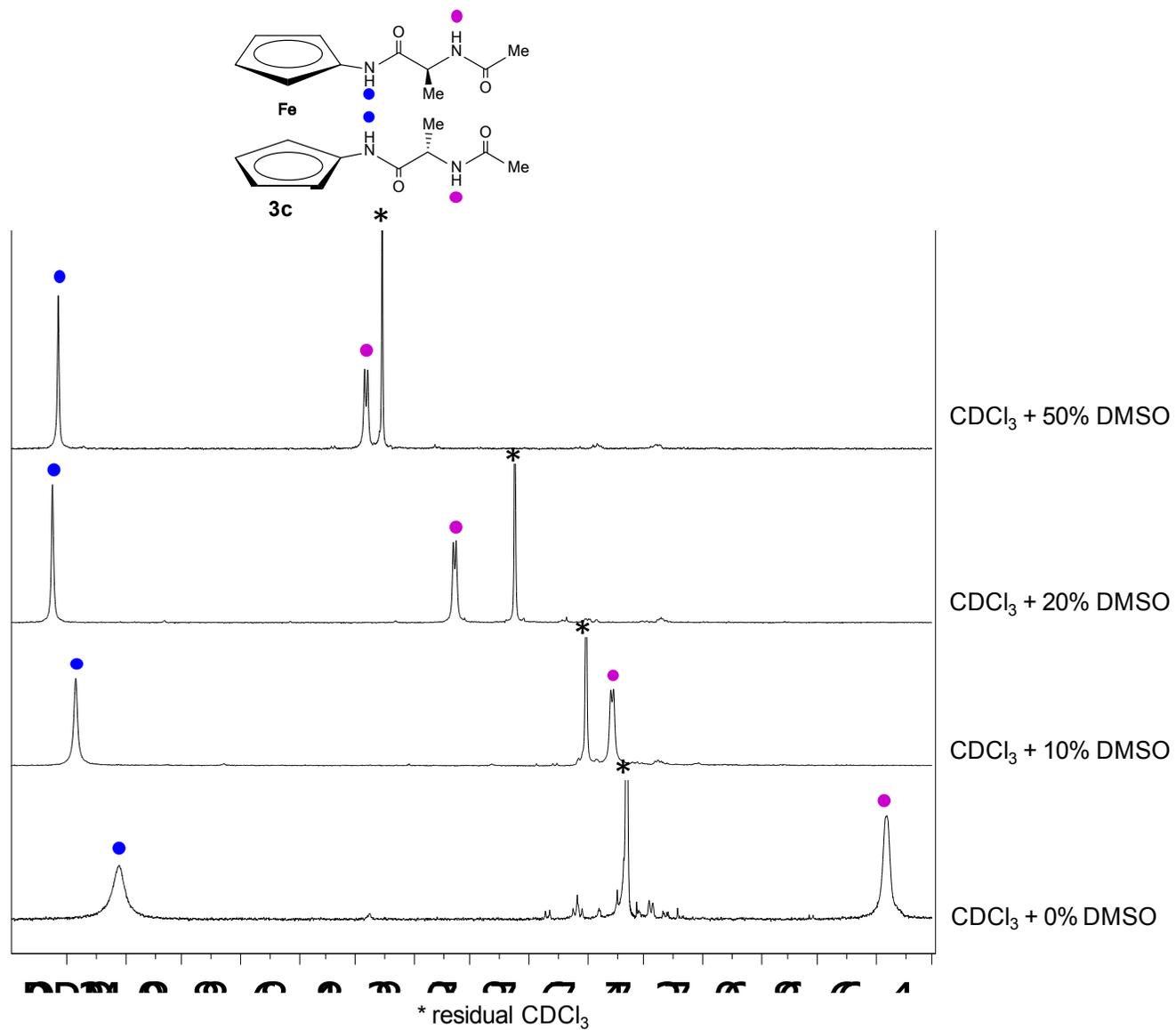


Figure S31. Solvent dependence of NH chemical shifts of compound **3c** at varying concentrations of *d*₆-DMSO in CDCl₃ ($c = 2.5 \times 10^{-2}M$)

SpinWorks 3: L. Barisic 2599

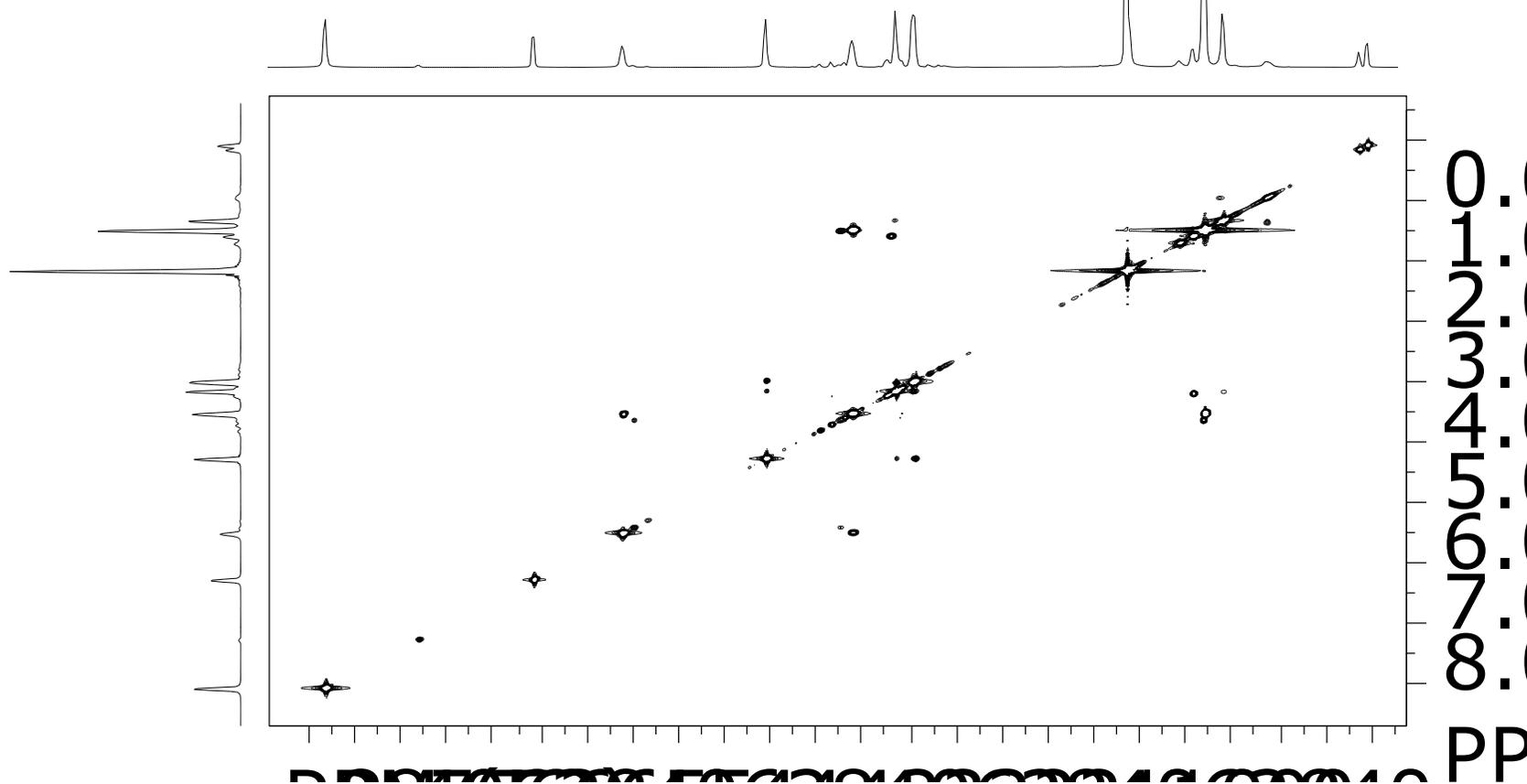


Figure S32. COSY NMR spectrum of compound 3c ($c = 5 \times 10^{-2}\text{M}$)

SpinWorks 3: L. Barisic 2599

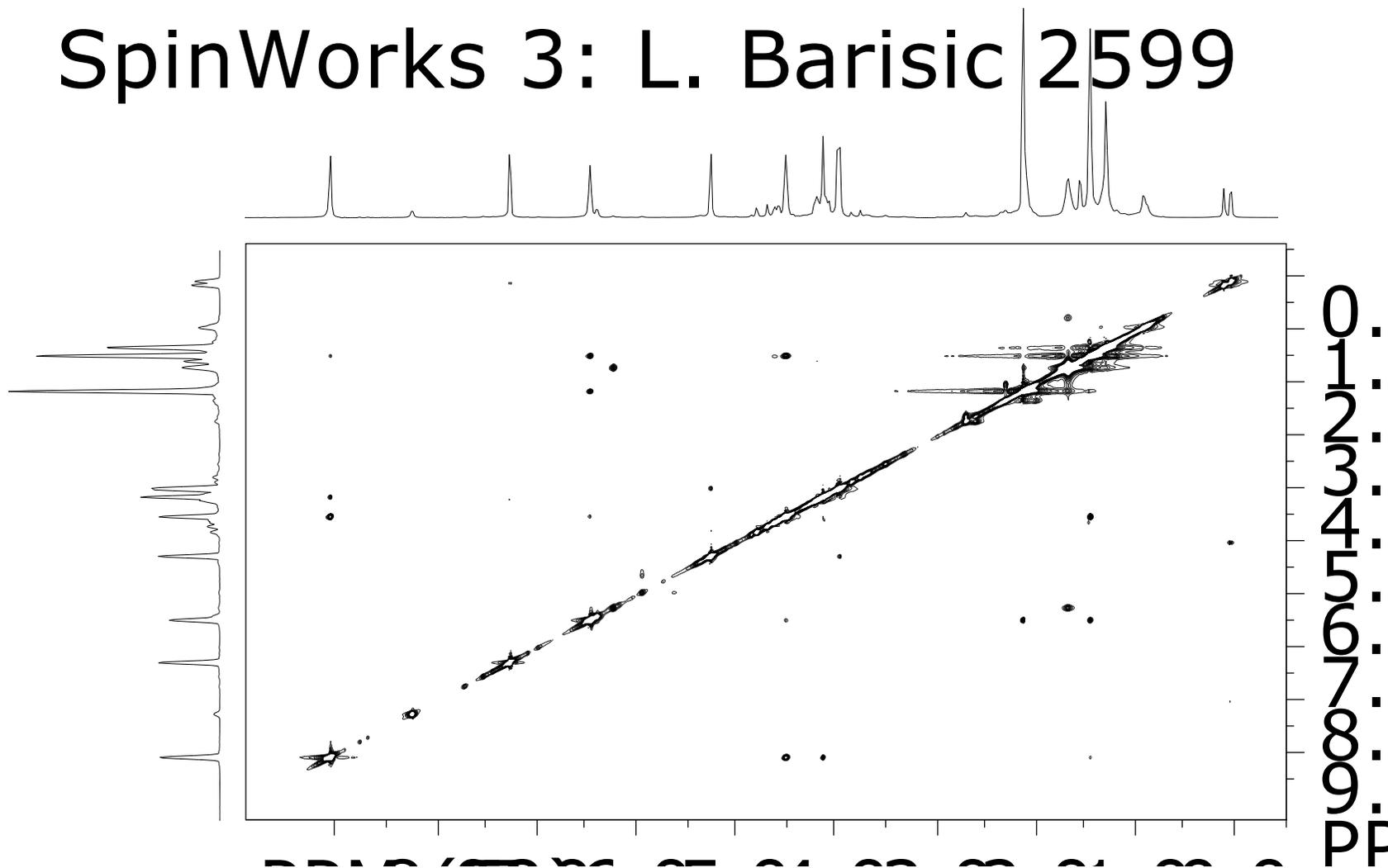


Figure S33. NOESY NMR spectrum of compound **3c** ($c = 5 \times 10^{-2}M$)